WCCTV

HIKVISION
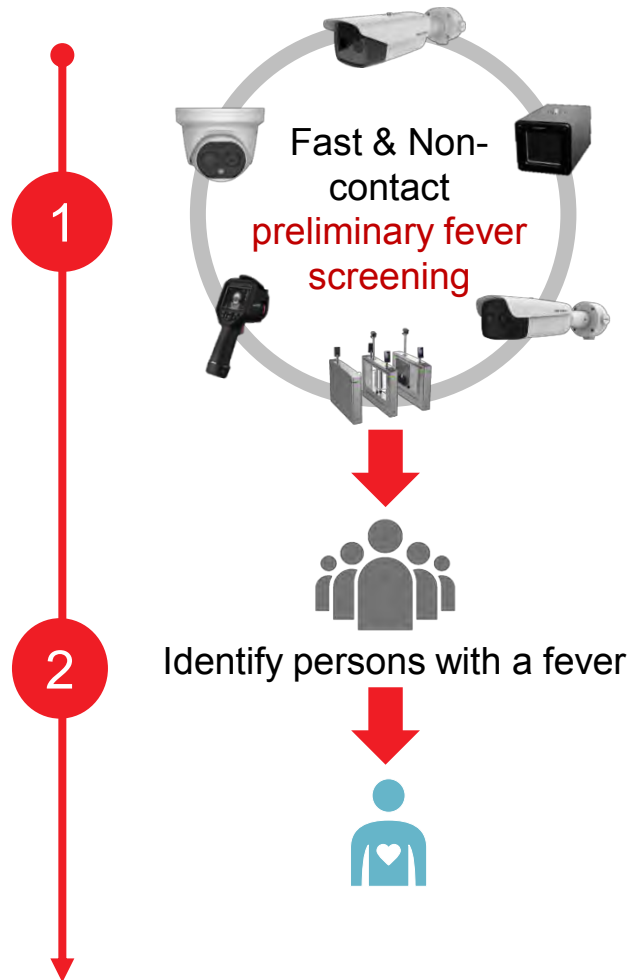
Hikvision
Fever Screening
Solutions and Products

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Fever Screening Process and Typical Application Scenarios

1 — Fast & Non-contact **preliminary fever screening**

↓

Identify persons with a fever

↓

2

Solution 1 — Arrivals
Economic Fever Screening Solution

Solution 2
High-end Fever Screening Solution

Solution 3
AI Fever Screening Solution

Solution 4
Fever screening by **Patrolling Inspectors**

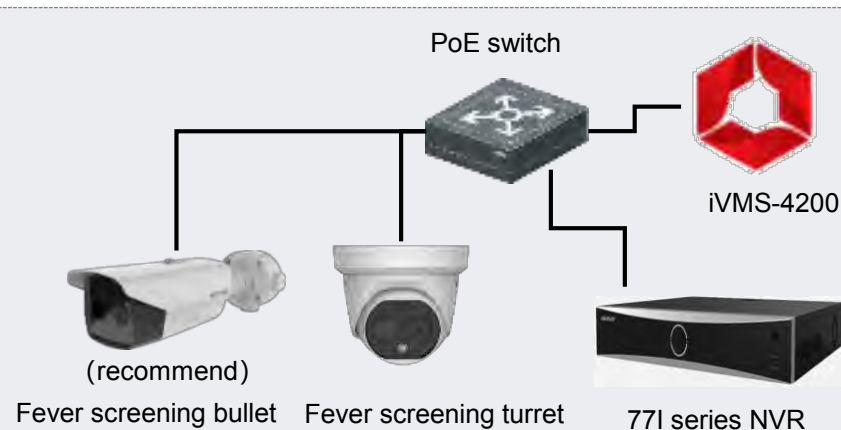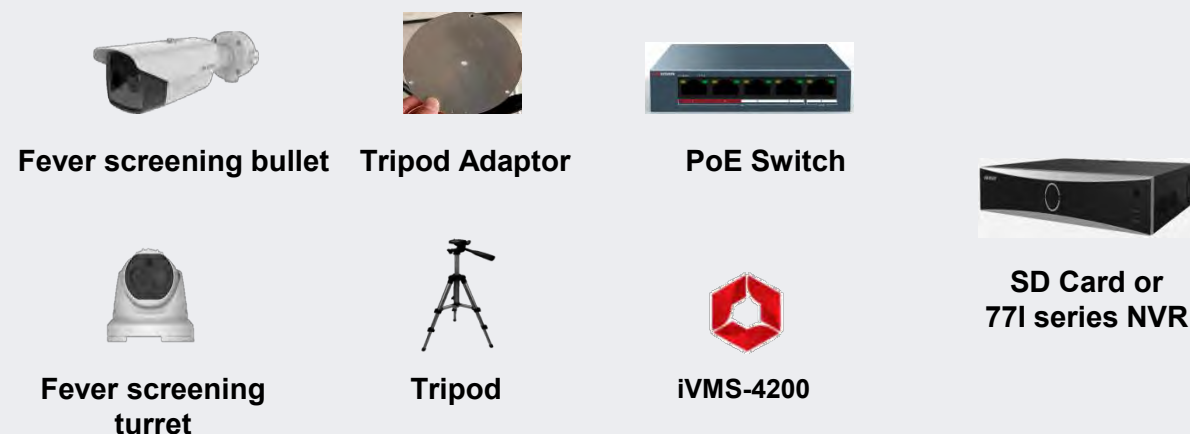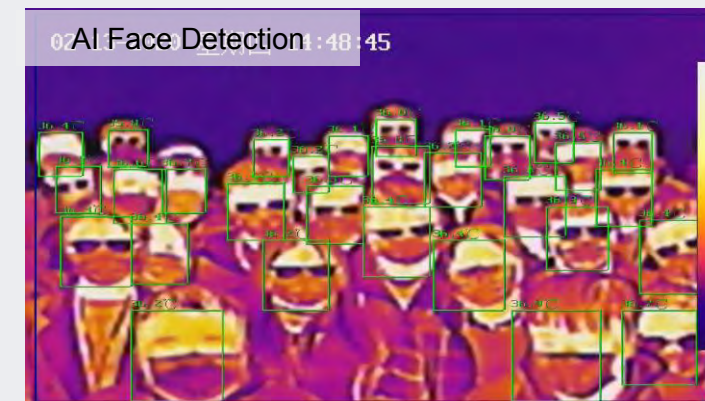**S**afe   **E**fficient   **A**daptable   **T**raceable

Economic Fever Screening Solution– Bullet/Turret Camera Based

Cost-effective: **1** camera with **2** lenses, empowered by AI for **Fever screening**

PoE switch

iVMS-4200

(recommend)
Fever screening bullet   Fever screening turret   77I series NVR

- Indoor space
- Recommend to set up a route to guide the flow
- Recommend to do fever screening 5 min after a person enters the indoor space
- screening accuracy is ±0.5℃

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Fever Screening
Thermal Turret Camera

AI Face Detection

Fever screening bullet   Tripod Adaptor   PoE Switch

Fever screening turret   Tripod   iVMS-4200   SD Card or 77I series NVR

Economic Fever Screening Solution– Bullet/Turret Camera Based

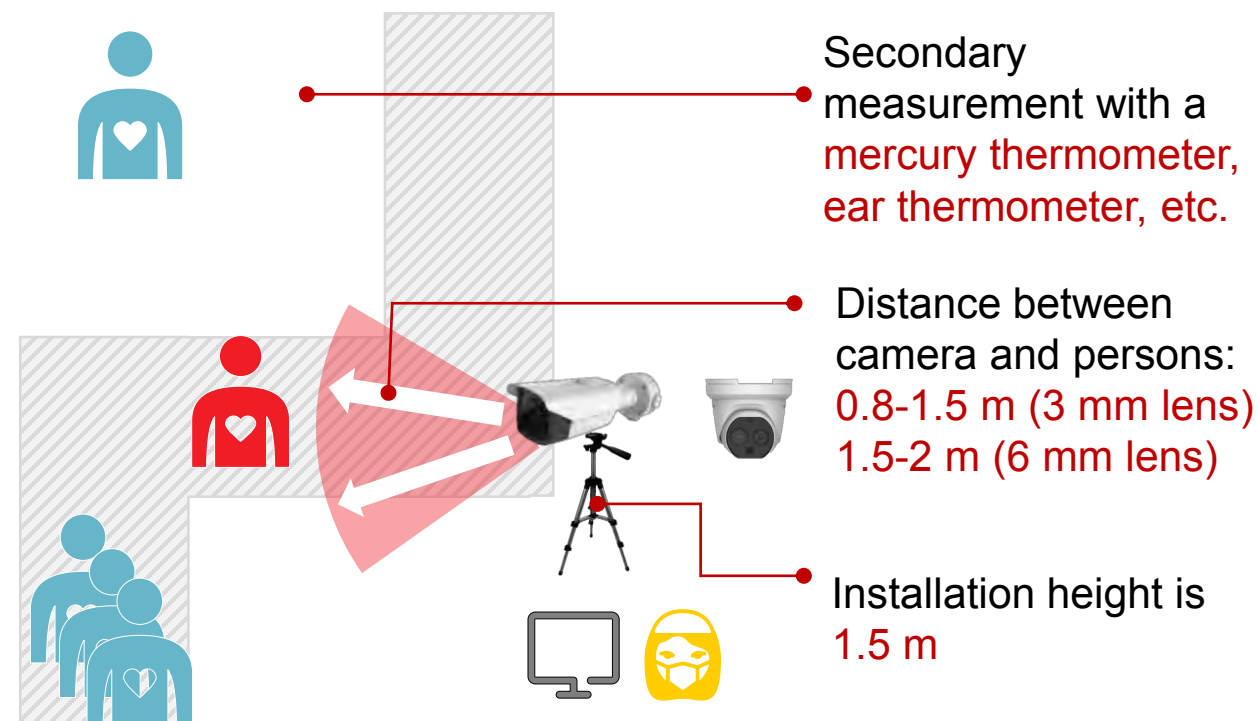Cost-effective: **1** camera with **2** lenses, empowered by AI for **Fever screening**

Product information

DS-2TD1217B-3/6 PA
DS-2TD2617B-3/6 PA   （recommend）

- Thermal: 160 × 120, lens: 3 mm / 6 mm
- Optical: 2688 × 1520, lens: 4 mm / 8 mm
- Accuracy: ±0.5℃
- Measurement range: 30-45℃
- Working temperature: 10-35℃
- Embedded audio alarm for abnormal temperatures
- AI human face detection increases the precision of fever screening

Secondary measurement with a mercury thermometer, ear thermometer, etc.

Distance between camera and persons:
0.8-1.5 m (3 mm lens)
1.5-2 m (6 mm lens)

Installation height is 1.5 m

Demo Video of Economic Fever Screening Solution

Cost-effective: **1** camera with **2** lenses, empowered by AI for **Fever screening**

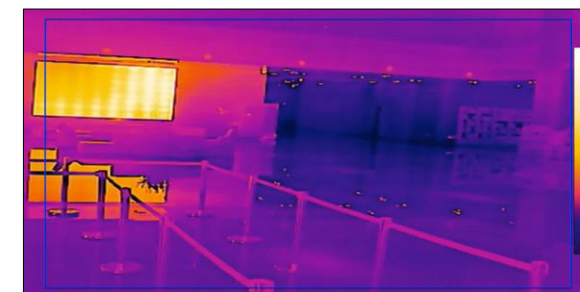- **Reduce false alarms triggered by AI face detection**
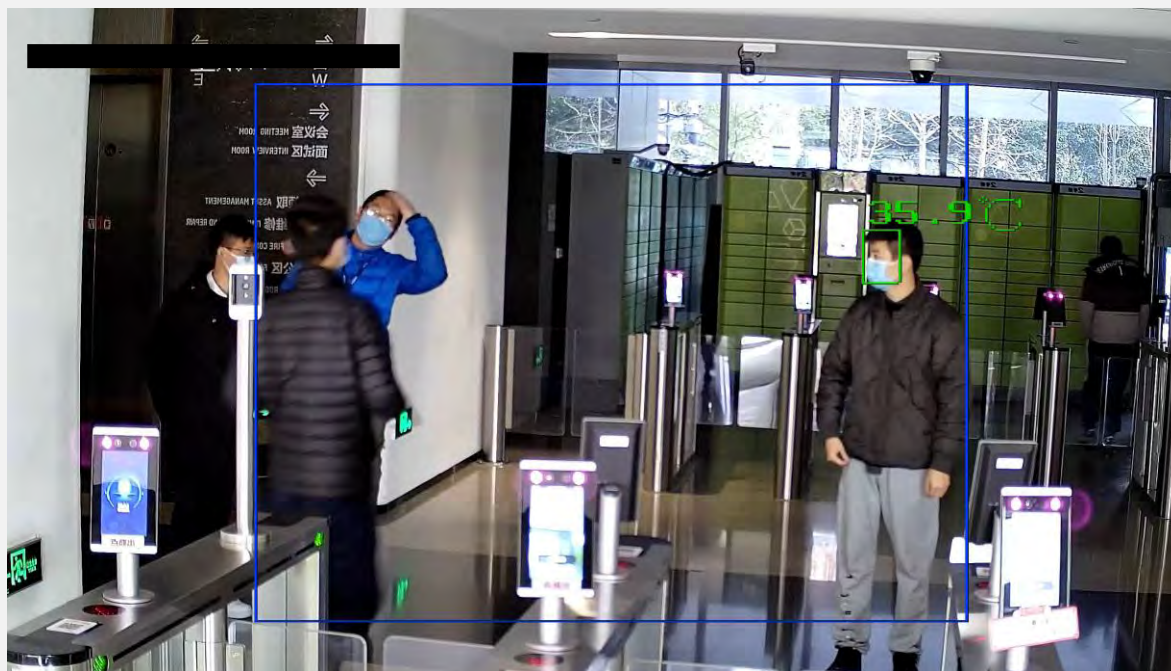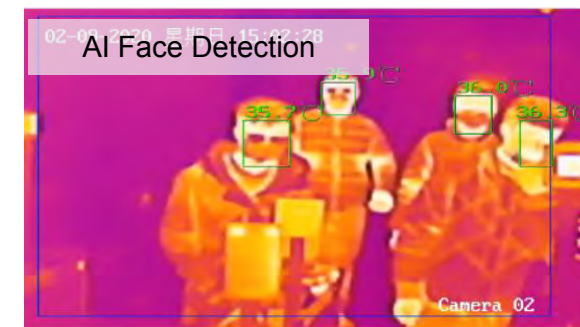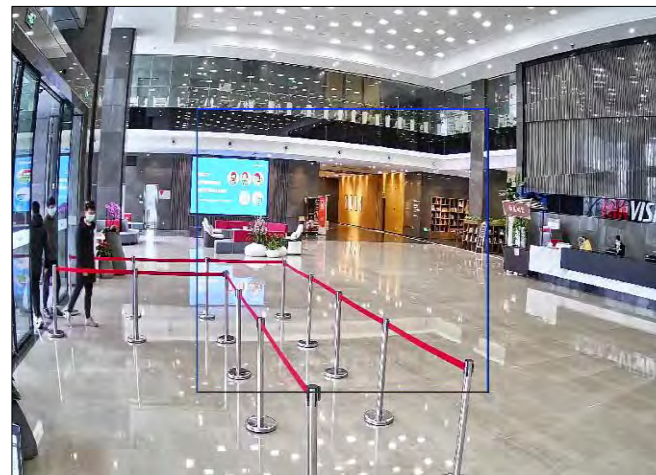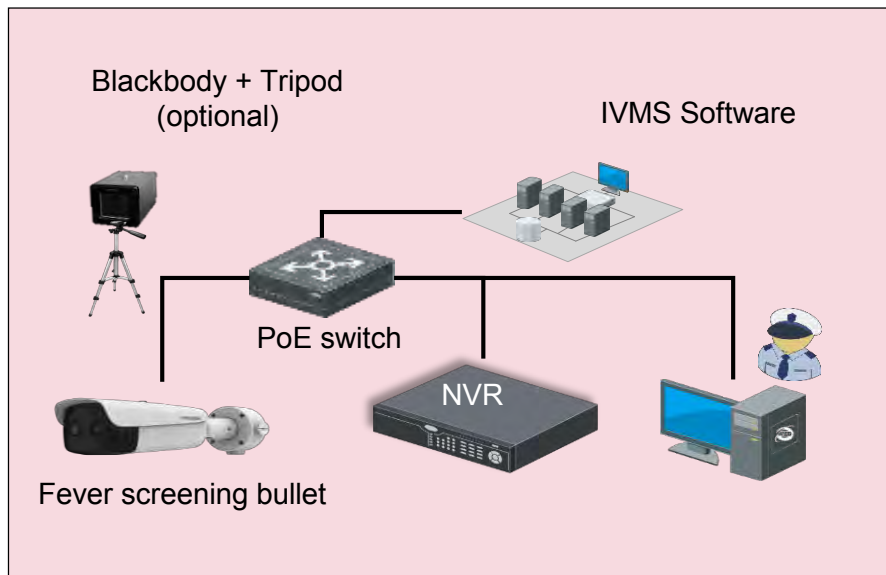

Optical channel   **Thermal channel**

High-End Fever Screening Solution

Group Fever Screening with High Efficiency

Solution Details

Blackbody + Tripod (optional)

IVMS Software

PoE switch

NVR

Fever screening bullet

AI Face Detection

Camera_02

- For long-term preliminary fever screening of crowds with high efficiency (indoor), simultaneous fever screening for multiple persons (Up to 30 persons)

- The blackbody is used as a calibrator to improve the accuracy to ±0.3℃

- Centralized management of access control with temperature records

Fever screening bullet

PoE switch

Blackbody (optional)

Wall-mounted bracket

Tripod (optional)

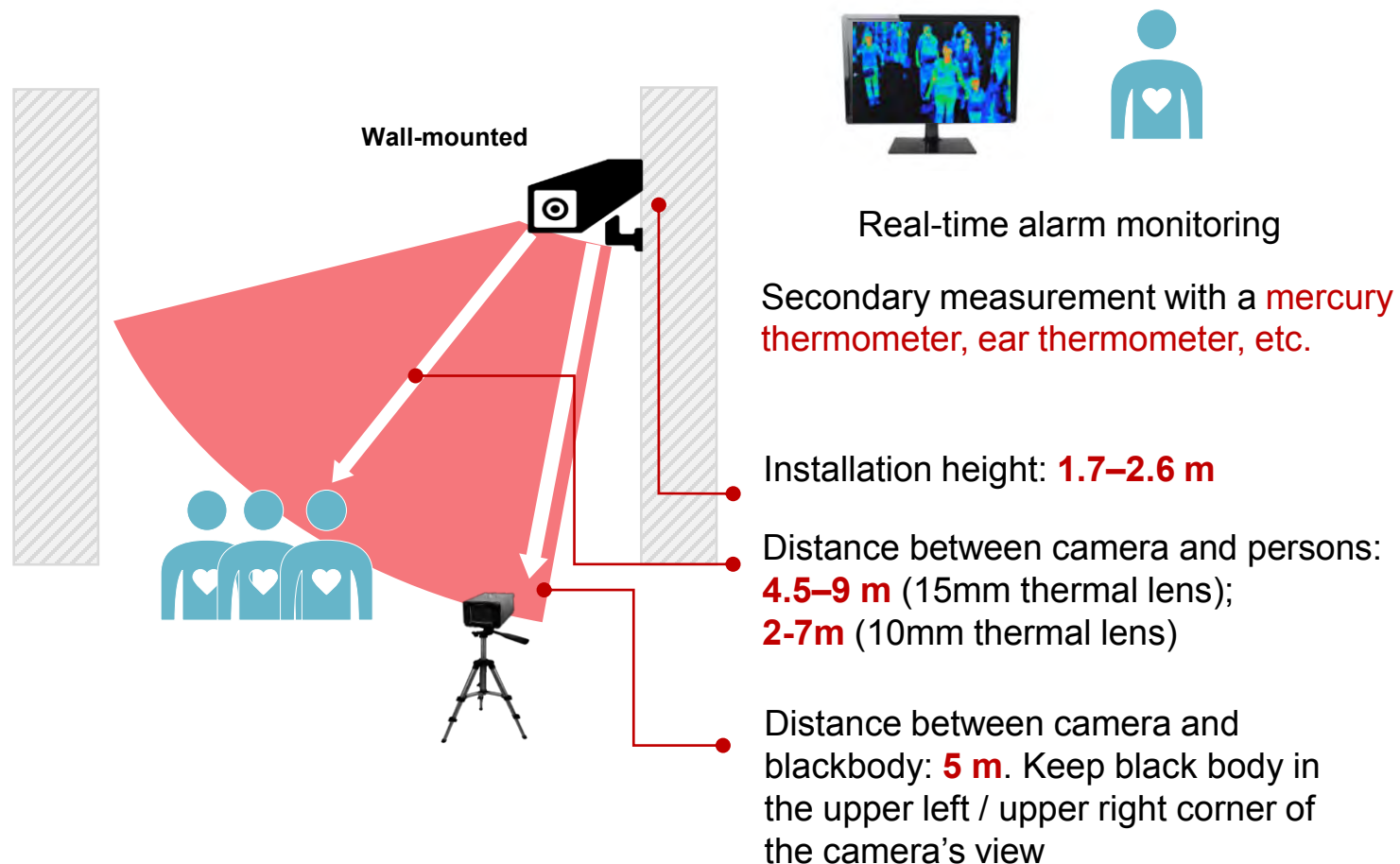96I series NVR
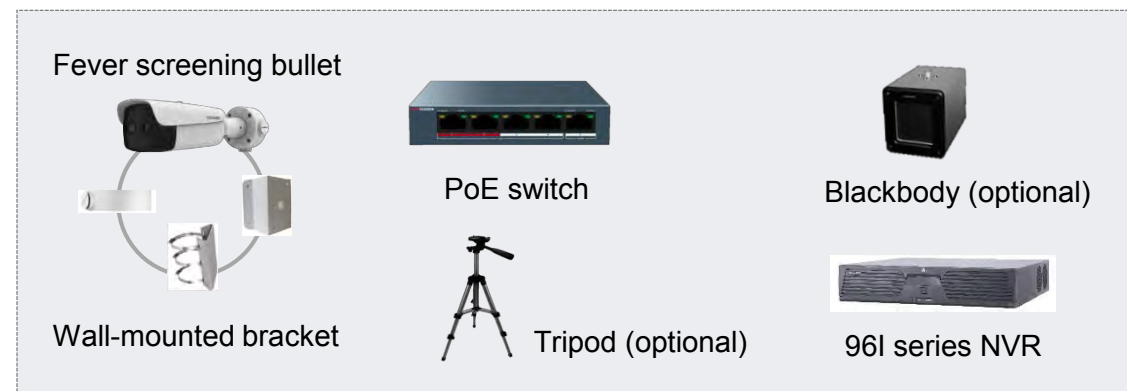
High-End Fever Screening Solution

Group Fever Screening with High Efficiency

Product Information

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

- Thermal: 384 × 288, lens: 10/15 mm
- Optical: 2688 × 1520, lens: 4/6 mm
- Simultaneous fever screening for multiple persons (up to **30 persons**)
- **Accuracy: ±0.3℃ (with blackbody)**
- Measurement range: 30-45℃
  Working temperature: 10-35℃
- **AI human face detection reduce the false alarms of fever screening**

Wall-mounted

Real-time alarm monitoring

Secondary measurement with a mercury thermometer, ear thermometer, etc.

Installation height: **1.7–2.6 m**

Distance between camera and persons: **4.5–9 m** (15mm thermal lens); **2-7m** (10mm thermal lens)

Distance between camera and blackbody: **5 m**. Keep black body in the upper left / upper right corner of the camera's view

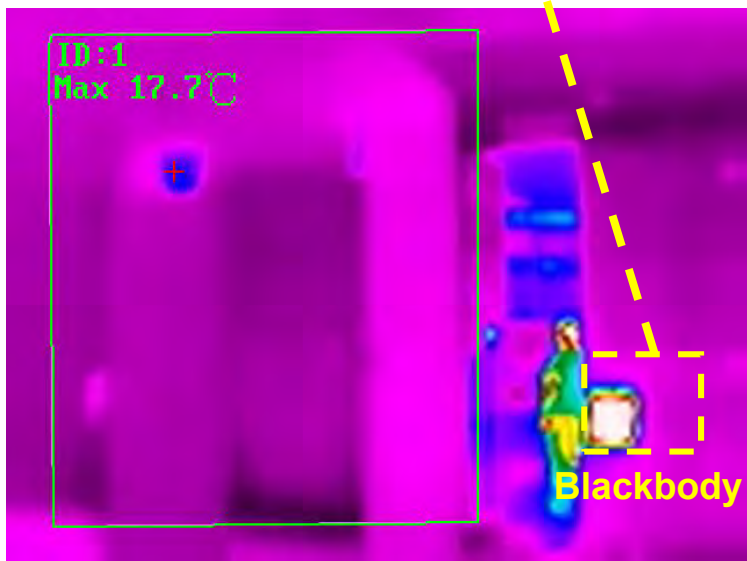# **Demo Video** of High-End Fever Screening Solution
Group Fever Screening with High Efficiency

Video Of The Thermal & Optical Channels

Temporary Installation & Monitoring Scheme

High-end Installation Scheme

ID:1
Max 17.7℃

ID:1
Max 17.7℃

Blackbody

Blackbody

Solution Architecture

Tripod + **Thermal Cameras** + **DeepinMind 96NXI NVR** + **Interactive Display** **Monitor**

Based on AI and thermal technology, Hikvision offers a professional solution to achieve fever screening, mask detection, stranger alarm and so on.

AI Fever Screening Solution
Based on AI and thermal technology

Highlights

01 **Fever Screening**

- Simultaneous fever screening for multiple persons (indoor)
- Non-contact fever screening

02 **Mask Detection**

- Detecting whether people wear masks
- Timely giving alarms on people without masks

03 **Identity Verification & Stranger Alarm**

- Confirming identity, even when the face is wearing a mask
- Giving alarms on strangers

04 **Efficient Search & Report**

- Fast video search of target people, such as people with abnormal temperatures, without masks and so on.
- Support exporting reports with ID, body temperature and mask status

Highlights

05 **Visualized GUI**

- Special interface in DeepinMind NVR, visually displaying all kinds of information

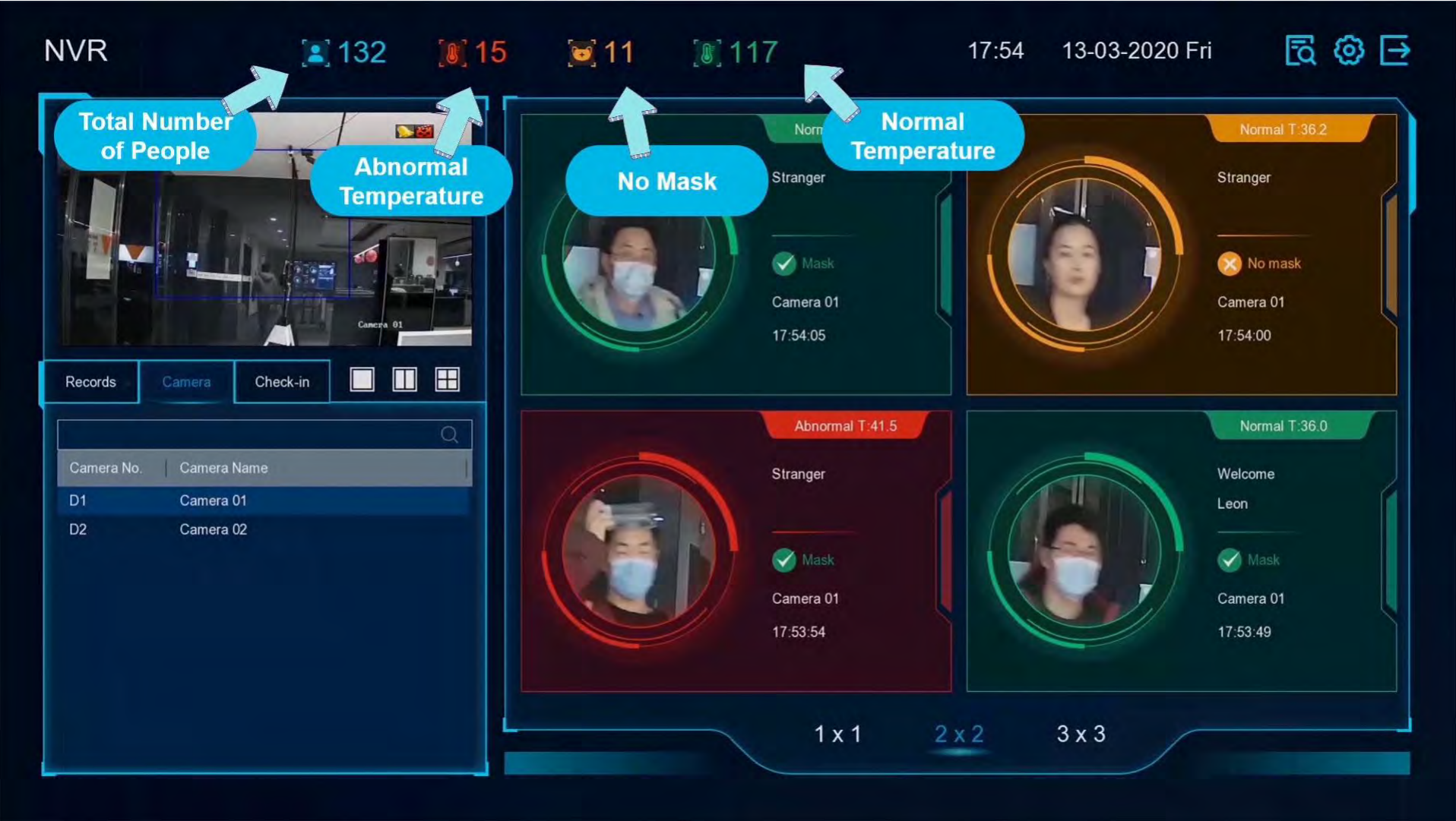- **Number of People:** total number, abnormal temperature, no mask, normal temperature

- **Temperature Status**
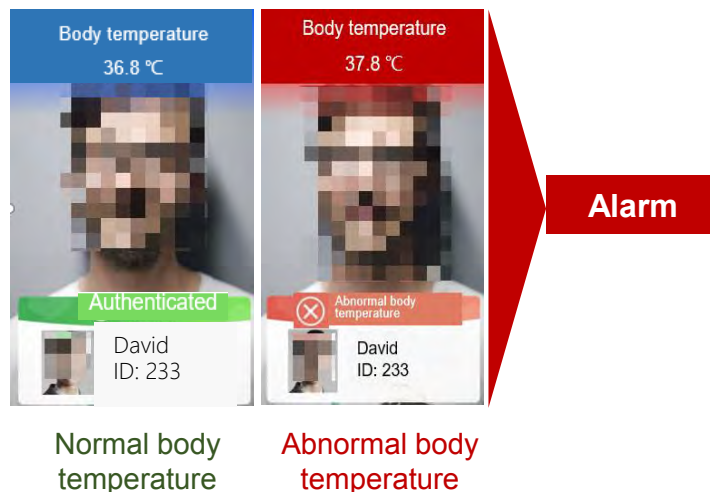- **Facial Recognition Results**
- **Mask Detection**

Demo Video of AI Fever Screening Solution
Based on AI and thermal technology

NEW

Fever Screening with **Access Control**

Face recognition & body temperature

Body temperature
36.8 ℃

Body temperature
37.8 ℃

Alarm

Authenticated

David
ID: 233

Abnormal body
temperature

David
ID: 233

Normal body
temperature

Abnormal body
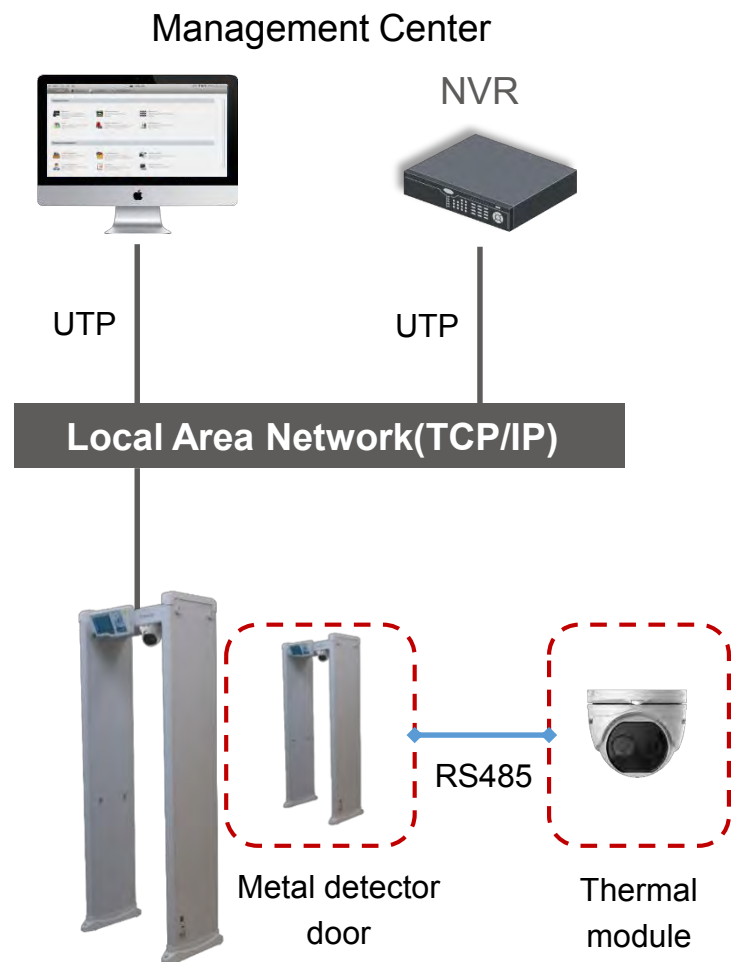temperature

- **Face recognition & body temperature measurement**
- **Non-contact** fast body temperature measurement
- All in one, fast to deploy
- **Voice reminder** to broadcast real-time alarms
- Face capacity: 50,000
- Passing speed: up to 60 persons/min
- Measurement range: 30-45℃
- Accuracy: ±0.5℃

Fever Screening with **Access Control**
Fever screening metal detector door

Management Center

NVR

UTP   UTP

Local Area Network(TCP/IP)

RS485

Metal detector door   Thermal module

Fever screening metal detector door solution

- **18** independent detection zones;
- **LCD screen;**
- Thermal imaging resolution：160*120
- Temperature measurement accuracy：**±0.5℃**
- Temperature measurement range：30-45℃
- Video mode: **Bi-spectrum image fusion;**
- In accordance with the international safety standard, **friendly to pregnant woman, people with cardiac pacemak**er, etc.

Application Scenarios of Solution 1 & 2 &3

School

Entrance of college building

Entrance of dormitory

Retail

Entrance of supermarket

Entrance of restaurant

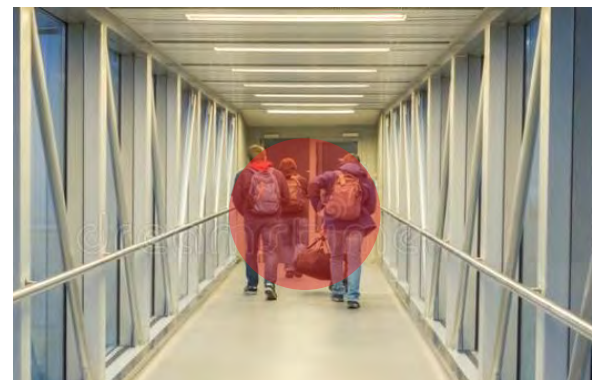## **Office Building**

Elevator hall of parking lot

Entrance of office building

Airport
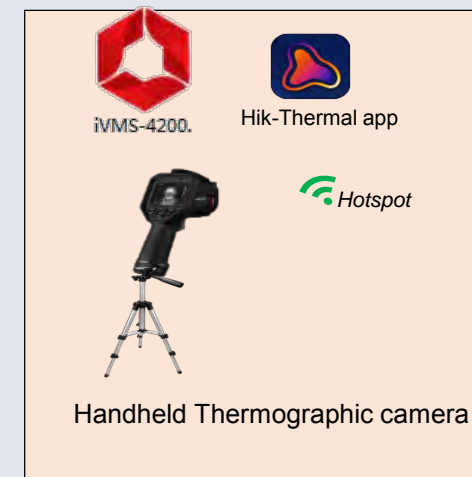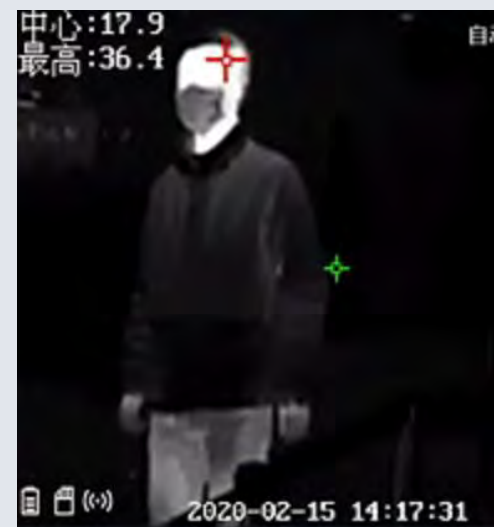

Jet bridge for departure & arrival flight

Entrance of terminal

Fever Screening **by Patrolling Inspectors**
Anytime, Anywhere, Just One Click

Solution Details

- For preliminary fever screening by spot-checking inspectors (indoor)

- Fever screening without disturbing a person occupied with work

iVMS-4200.   Hik-Thermal app

Hotspot

Handheld Thermographic camera

1 m - 1.5 m

If abnormal

Fast and flexible **preliminary measurement**

Automatic **screenshot** & upload to Thermal app as **evidence**

Fever Screening **by Patrolling Inspectors**

Anytime, Anywhere, Just One Click

Product Information

- Thermal resolution: 160 × 120;

- Optical resolution: 640 × 480;

- **Accuracy: ±0.5℃**

- Measurement range: 30-45℃

- 3.5" LCD touch screen

- Supports **Wi-Fi hotspot**, automatic screenshots of a person with a fever & uploading to the Mobile Client (Hik-Thermal) as evidence

- Supports real-time **audio alarm**

- Operation time: **4-5 hours**

DS-2TP21B-6AVF/W

Demo Video of Fever Screening by Patrolling Inspectors

Anytime, Anywhere, Just One Click

Application Scenarios of Fever Screening by Patrolling Inspectors
Anytime, Anywhere, Just One Click

Security Service Fever Screening- **Entrance & Exit**

Government　　　**School**　　　**Bank**　　　**Office**　　　**Residence**　　　**Hospital**

Artificial Intelligence Solution

Anytime, Anywhere, Just One Click

Check out our accuracy!

Contact Details

For Further information please contact:

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Website: https://wcctv.co.za

Product List

DS-2TD2636B-15/P & DS-2TD2637B-10/P
- Thermal: 384 × 288, lens: 15 mm/10mm；
- Optical: 2688 × 1520, lens: 6mm/4mm；
- Accuracy: ±0.5℃ (± 0.3℃ with blackbody)
- Measurement range: 30-45℃
- Working temperature: 10-35℃
- AI human face detection, false alarms reduction
- Simultaneous fever screening for multiple persons (Up to 30 persons)

HikCentral Professional
- Flexible, scalable, reliable and powerful central surveillance system
- Supports live view, play back, access control, alarm management, facial recognition, temperature data storage, abnormal temperature trend analysis, etc.
- Centralized management of access control system with real-time fever alarm handling and tracing back
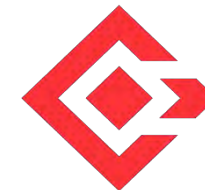
DS-2TD2617B-3/6PA(B)
- Thermal: 160 × 120；
- Lens: 3 mm / 6 mm；
- Optical: 2688 × 1520；
- Optical lens: 4 mm / 8 mm；
- Video mode: Bi-spectrum image fusion；
- Accuracy: ±0.5℃ (± 0.3℃ with blackbody)
- Measurement range: 30-45℃
- Supports audio alarms

DS-2TD1217B-3/6PA(B)
- 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℃ (±0.3℃ with blackbody)
- Measurement range: 30-45℃
- Supports audio alarms

Blackbody Calibrator
- Temperature resolution: 0.1℃
- Accuracy: ±0.1℃
- Temperature stability: ±0.1℃/h
- Effective emissivity: 0.97±0.02
- Operating temperature: 0-30℃

iDS-9616(/32/64)NXI-I16/X(B) iDS-9616(/32/64)NXI-I8/X(B)
Fever Screening
- Simultaneous fever screening for multiple persons (ind
- Non-contact fever screening

Mask Detection
- Detecting whether people wear masks
- Timely giving alarms on people without masks

Visualized GUI
- Special interface in DeepinMind NVR, visually displaying all kinds of information

DS-2TP21B-6AVFW
- Thermal resolution: 160 × 120；
- Optical resolution: 640 × 480；
- Measurement range: 30-45℃
- Touch screen
- Accuracy: ±0.5℃ (±0.3℃ with blackbody)
- Bi-spectrum image fusion
- Supports Wi-Fi
- Supports audio alarms
- Automatic screenshots & uploading

HIKVISION

Thanks

See far, go further