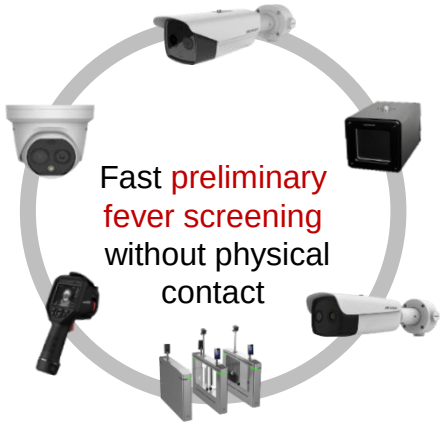
HIKVISION
Hikvision
Fever Screening
Solutions

Fever Screening Process and Typical Application Scenarios

1



Fast preliminary fever screening without physical contact

2

Identify persons with a fever

3

Manual measurement by mercury thermometer, ear thermometer, forehead thermometer, etc.

Scenario 1

Long-term fever screening for crowds in open areas

Scenario 2

Fever screening by patrolling inspectors

Scenario 3

Short-term fever screening at entrances

Scenario 4

Long-term fever screening with access control (new project)

S — SAFE
Non-contact, long range and high accuracy, reducing risks of cross-infection

E — EFFICIENT
Efficient, auto alarm triggering, greatly reducing labor costs

A — ADAPTABLE
Multiple product types, easy to deploy, suitable for various scenarios

T — TRACEABLE
Combining temperature, image and human body recognition for easy and informed management

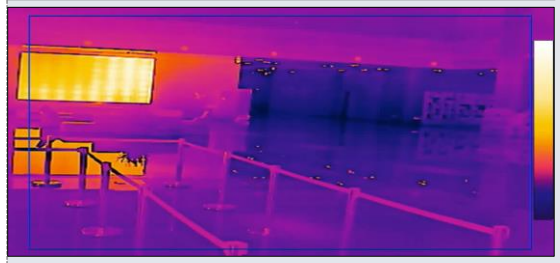
Scenario 1

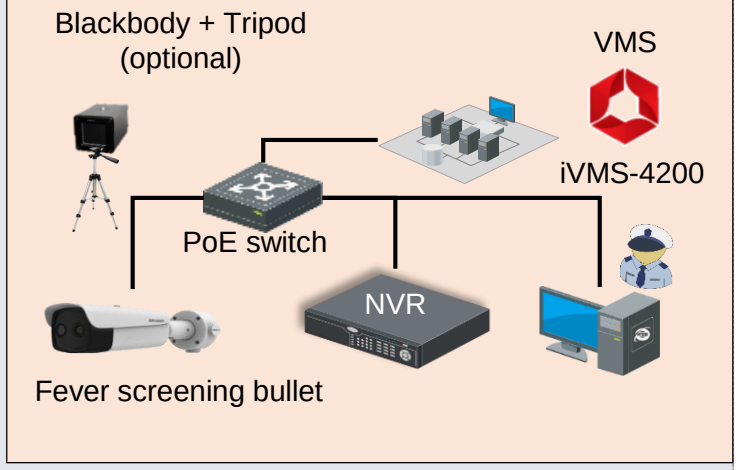
Long-term Fever Screening for Crowds in Open Areas

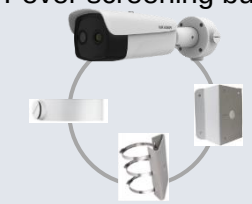
Group Fever Screening with High Efficiency

Solution Details

- 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

Wall-mounted bracket

PoE switch

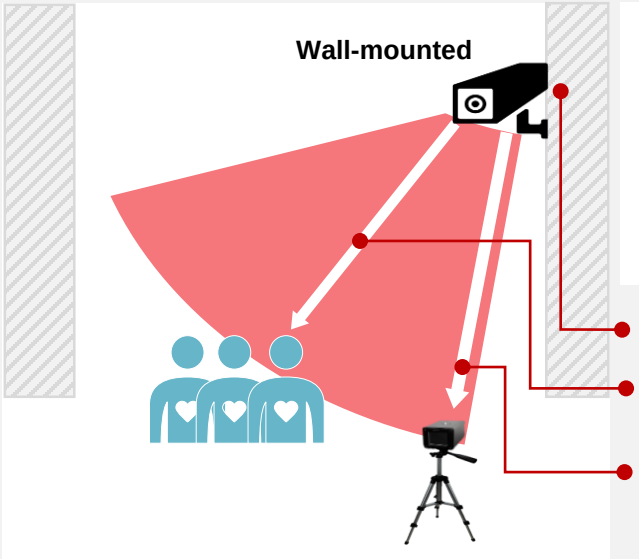
Blackbody (optional)

Tripod (optional)

Product Information

- Thermal: 384 × 288, lens: 10/13/15 mm
- Optical: 2688 × 1520, lens: 4/6/6 mm
- Simultaneous fever screening for multiple persons (up to 30 persons)
- **Accuracy: ±0.5℃**
- Measurement range: 30-45℃
- Working temperature: 10-35℃
- **AI human body detection reduce the false alarms of fever screening**

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



Real-time alarm monitoring

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

Installation height: **2.5 m**

Distance between camera and persons:
2.5–9 m (15mm thermal lens);
2.5–7 m (13mm thermal lens);
2-7 m (10mm thermal lens)

Distance between camera and blackbody: **5/3/3 m**. Keep black body in the upper left / upper right corner of the camera's view

Scenario 1

Application Scenarios

Note: Indoor installation recommended. The fluctuation in outdoor ambient temperatures influences the accuracy of temperature measurement.

Hospital

The nurse station or information desk is the place where the potential patients will consult and gather. So the fast preliminary fever screening is quite needed here.

Airport Transport Station

The passenger channels at the airport or other transport stations are the important locations where passengers arrive and need the fast preliminary fever screening.

Office Building

Corridors of buildings are the regular areas where most of the employees pass through. This location can be a daily internal screening point.

Scenario 2

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
- Recommend to do the measurement 5 min after a person enters the indoor space

Hik-Thermal app

Hotspot

iVMS-4200

Handheld Thermographic camera

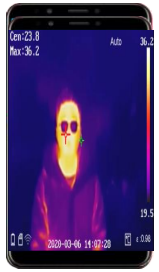
Product Information

DS-2TP21B-6AVF

- 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**

1.5 m - 3 m

If abnormal



Fast and flexible **preliminary measurement**

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

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

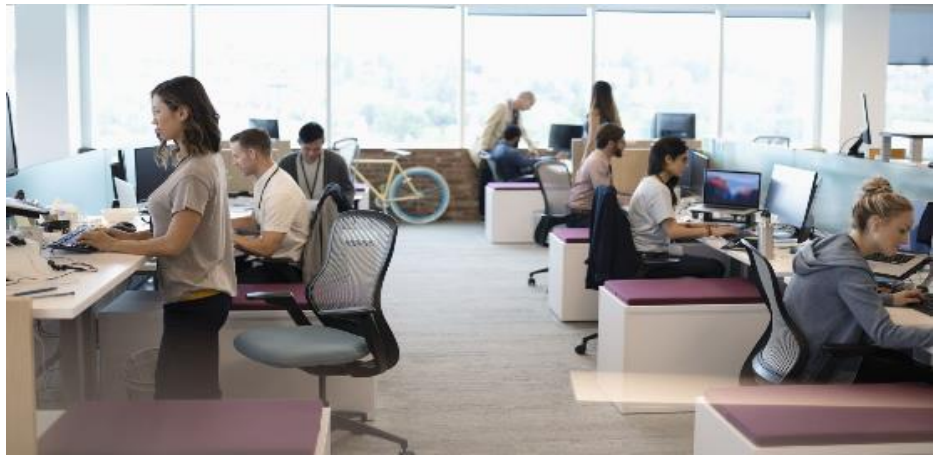
Scenario 2

Application Scenarios

Note: Indoor installation recommended. The fluctuation in outdoor ambient temperatures influences the accuracy of temperature measurement.

Factory Workshop

Office Building Office area



School Entrance of classroom

Bank Entrance of branch

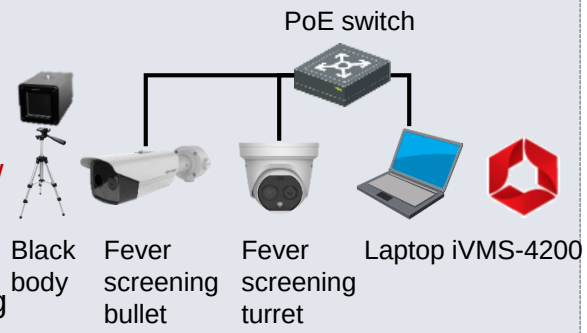
Scenario 3

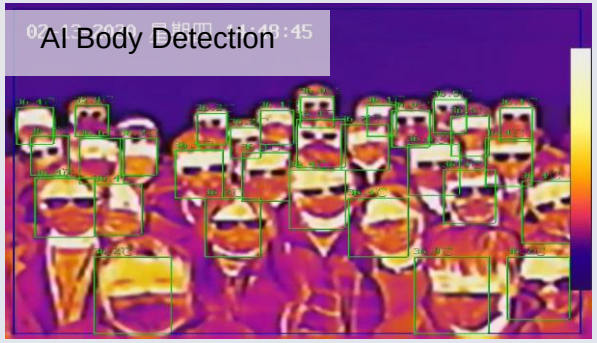
Short-term Fever Screening at Entrances – Bullet/Turret Camera Based

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

Solution Details

- For building entrances, elevator halls, airport security checks, etc.
- Indoor space without wind
- Recommend to set up a route to guide the flow
- Recommend to do fever screening 5 min after a person enters the indoor space
- Use the blackbody as a calibrator for screening to improve the accuracy to ±0.3℃





Fever screening bullet

Tripod Adaptor

Blackbody (optional)

PoE Switch

Fever screening turret

Tripod

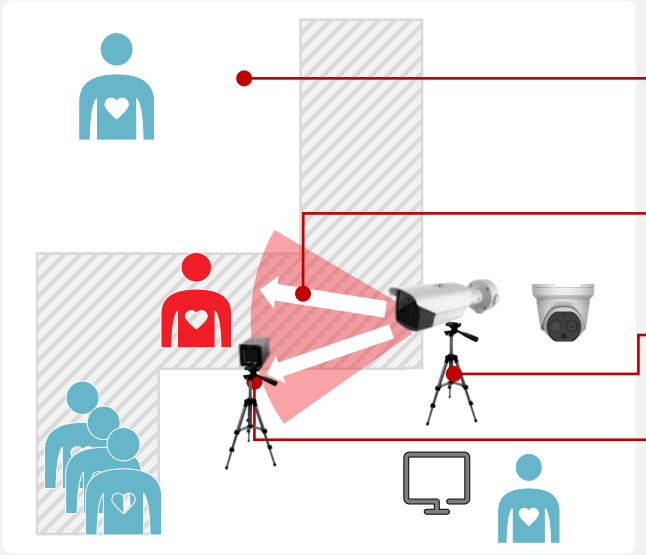
iVMS-4200

Laptop

Product information

DS-2TD1217B-3/6 PA
DS-2TD2617B-3/6 PA

- Thermal: 160 × 120, lens: 3 mm / 6 mm
- Optical: 2688 × 1520, lens: 4 mm / 8 mm
- Accuracy: ±0.5℃ (± 0.3℃ with blackbody)
- Measurement range: 30-45℃
- Working temperature: 10-35℃
- Embedded audio alarm for abnormal temperatures
- AI human body 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) 1.5-3 m (6 mm lens)

Installation height is 1.5 m

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

Scenario 3

Short-term Fever Screening at Entrances – Handheld Camera Based

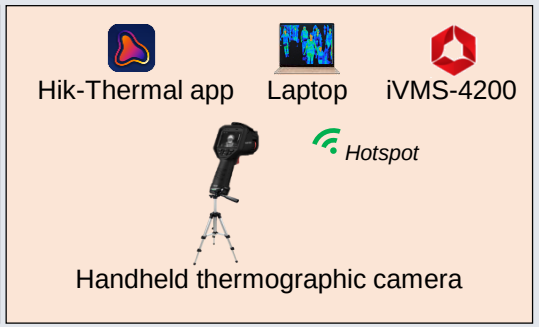
Wireless, Flexible, Fast Deployment

Solution Details

- 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
- Recommend to set up a route to guide the flow
- Recommend to do fever screening 5 min after a person enters the indoor space

Tripod

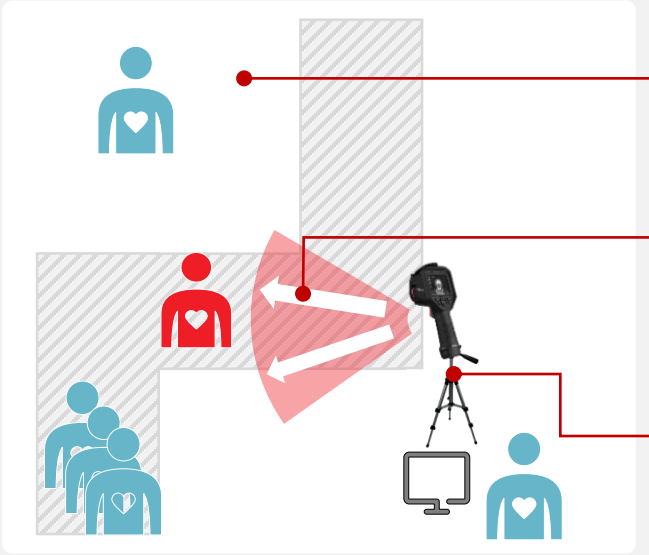
Handheld thermographic camera



Product Information

DS-2TP21B-6AVF

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



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

Distance between camera and persons: 1.5-3 m

Installation height is 1.5 m

Scenario 3

Application Scenarios

Note: Indoor installation recommended. The fluctuation in outdoor ambient temperatures influences the accuracy of temperature measurement.

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

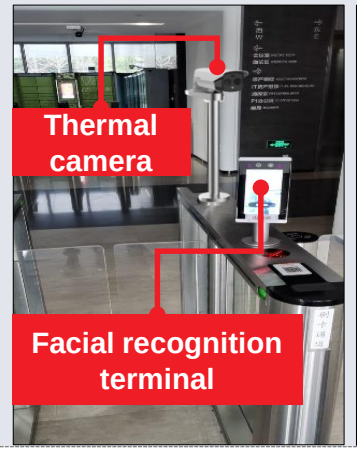
Scenario 4

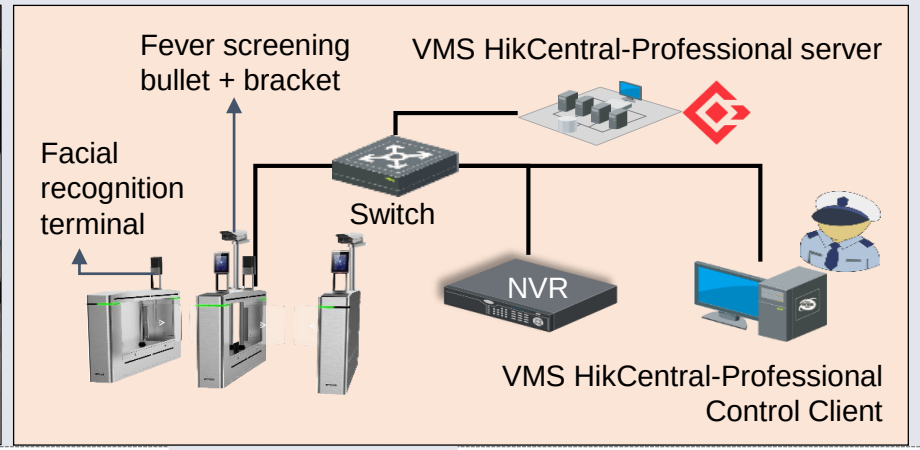
Long-term Fever Screening with Access Control (new project)

Duo Protection without A Touch

Solution Details

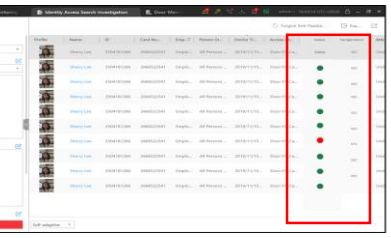
- Long-term fever screening with access control for building related projects
- Indoor space
- Recommend to do fever screening 5 min after a person enters the indoor space
- Centralized management of access control with temperature records

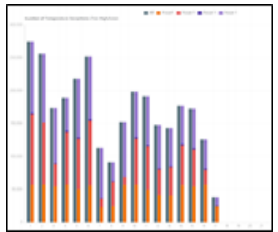


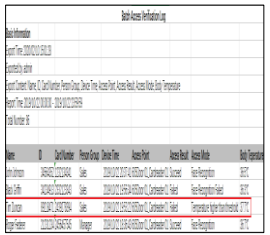


VMS centralized management of the access control system:

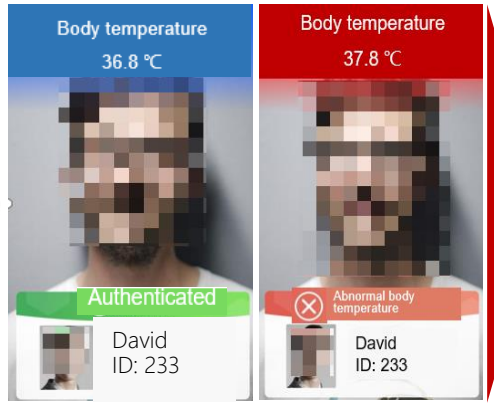
① Access record with temperature statistics, and can be exported as reports
② Real-time fever alarm handling and tracing back
③ Open ability of access record with temperature information (Open API)







3rd-Party Integration (OA)



Normal body temperature

Abnormal body temperature

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

Product Information

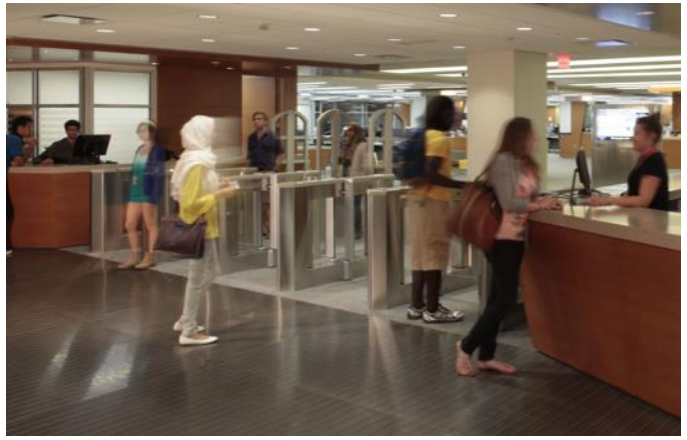
- Face recognition & body temperature measurement
- Non-contact fast body temperature measurement (face detection)
- All in one, fast to deploy
- Voice reminder to broadcast real-time alarms
- Face capacity: 20,000
- Passing speed: up to 60 persons/min
- Measurement range: 30-45℃
- Accuracy: ±0.5℃

Scenario 4

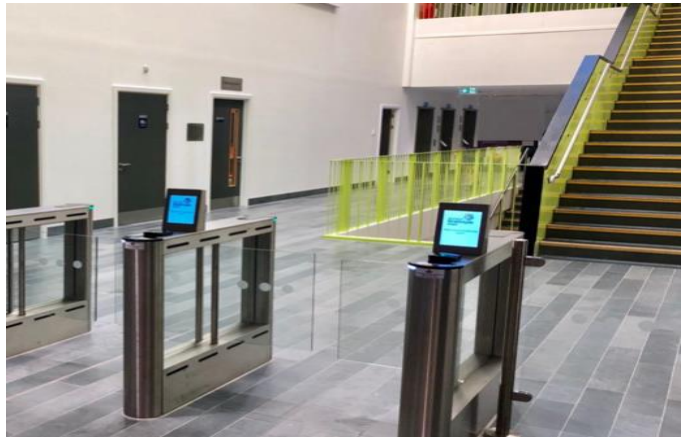
Application Scenarios

Note: Indoor installation recommended. The fluctuation in outdoor ambient temperatures influences the accuracy of temperature measurement.

School



Entrance of library



Entrance of dormitory

Factory

Entrance of factory

Entrance of workshop

Commercial Building

Elevator hall of parking lot

Main entrance of office building

Product List

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

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

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℃

- Face recognition & body temperature measurement
- Non-contact fast body temperature measurement (face detection)
- All in one, fast to deploy
- Voice reminder to broadcast real-time alarms
- Face capacity: 20,000
- Passing speed: up to 60 persons/min
- Measurement range: 30-45℃
- Accuracy: ±0.5℃

DS-K5671-ZU+DS-2TD2617B-3/6PA(B)
DS-K3B601-L/Mpg-Dp65 or DS-K3B601-M/Mpg-InTtNDp65 or DS-K3B601-R/MpgTtN-Dp65

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