

Hikvision Temperature Screening Solutions

Why is the thermal camera solution ?



forehead thermometer

Distance : 10-20 cm Speed : 1-5 seconds Display: Numeric only Efficiency: 12 persons / minute Information preservation: No preserve



What is thermal camera?

Principle

A

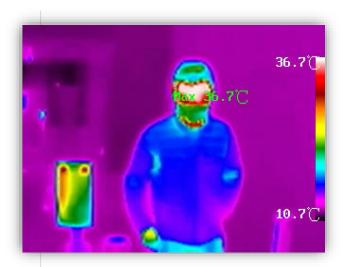
Any object with temperature above absolute zero emits a detectable amount of radiations. Thermal camera converts IR radiations into gray value, and establishes the accurate corresponding relation between gray value and temperature through the temperature measurement algorithm model. The model (Temperature Gray Level Curve) is obtained by black-body calibration.

Application

It is well-known that one major symptom of virus infections is temperature. Therefore, thermal camera with high temperature accuracy can detect the elevated skin-surface temperature to make the preliminary screening. Thermal cameras are advisable to be installed at the places with long queues such as passport control.

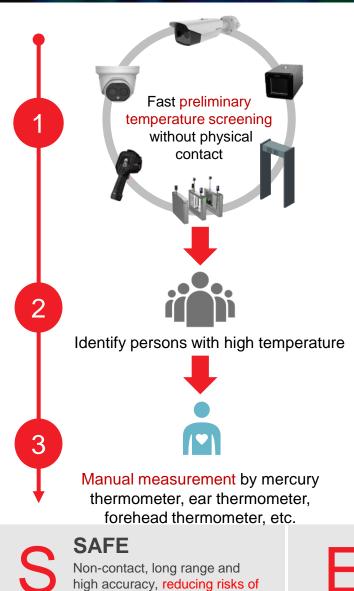
Advantages

- 0
- 1. High Efficiency: It takes only one second that thermal camera can detect temperature of each person. Thus, no congestion will be made when passing through the site where temperature needs to check.
- 2. Safety: Thermal camera supports non-contact temperature measurement which can achieve accurately measuring temperature around 1 meter away. That reduces the risk of infection coming from physical contact.





Temperature Screening Process and Typical Application Scenarios



cross-infection



Long-term temperature screening for crowds in open areas



Hand held temperature screening by patrolling inspectors

Scenario 4



Short-term temperature screening at entrances

 EFFICIENT
Efficient, auto alarm triggering, greatly ,up to 60 people per second

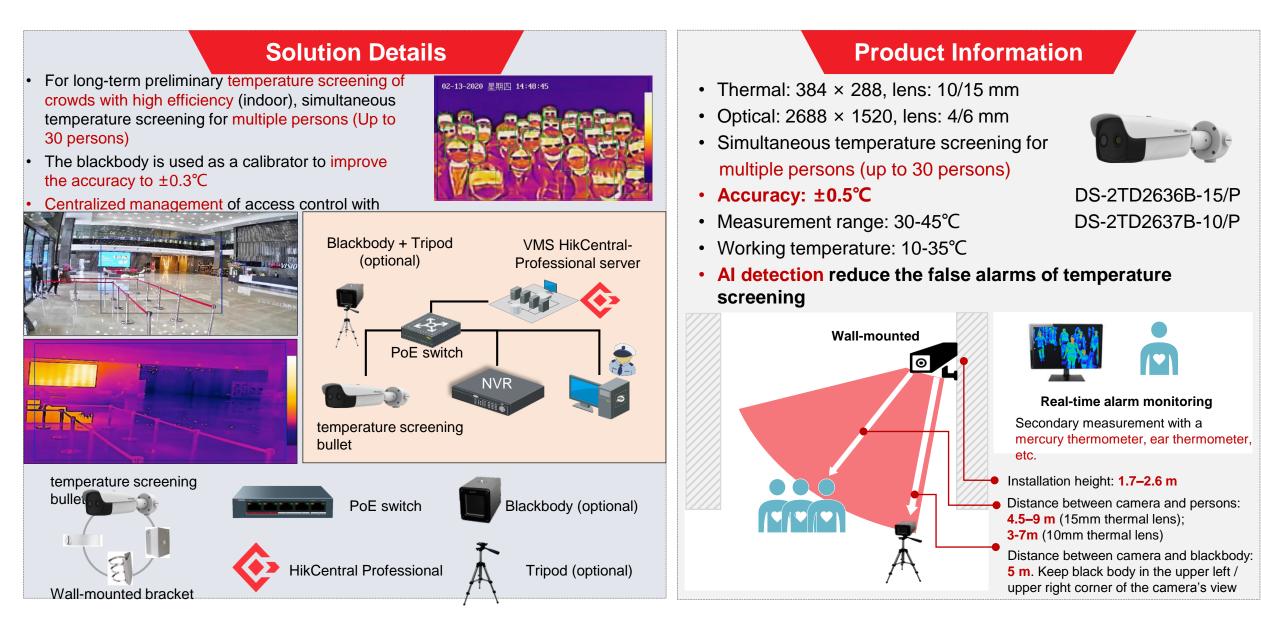




Combining temperature, image and human recognition with AI technology for easy and informed management

Long-term Temperature Screening for Crowds in Open Areas

Group Temperature Screening(up to 9meter for the detection)



Application Scenarios(open area)

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

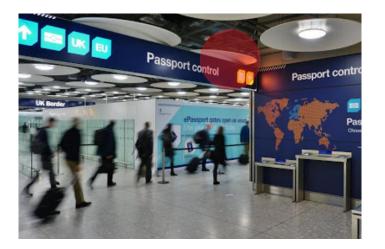
Hospital



The nurse station or information desk

is the place where the potential patients will consult and gather. So the fast preliminary temperature 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 temperature 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.



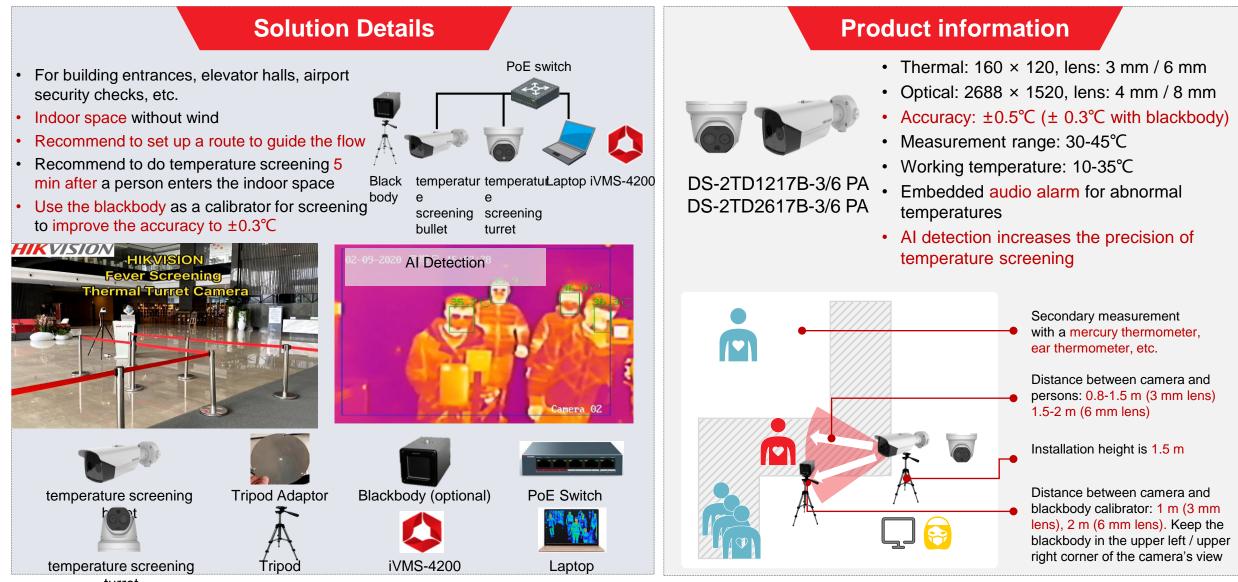
Application Scenarios





Short-term temperature Screening at Entrances - Bullet/Turret Camera

up to 2meter for the detection



turret

Application Scenarios(Entrance)

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

School



Office Building



Elevator hall of parking lot

Scenario

Entrance of office building

Airport

Retail



Jet bridge for departure & arrival flight

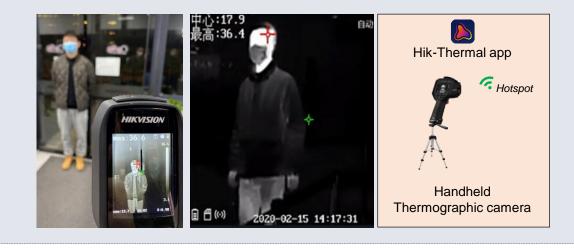
Entrance of terminal

Hand held temperature Screening by Patrolling Inspectors

Anytime, Anywhere, Just One Click

Solution Details

- For preliminary temperature screening by spot-checking inspectors (indoor)
- temperature screening without disturbing a person occupied with work



Product Information

- 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 a temperature & uploading to the Mobile Client (Hik-Thermal) as evidence
- Supports real-time audio alarm
- Operation time: 4-5 hours









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

Fast and flexible preliminary measurement

Scenario

Automatic screenshot & upload to Thermal app as evidence

DS-2TP21B-6AVF



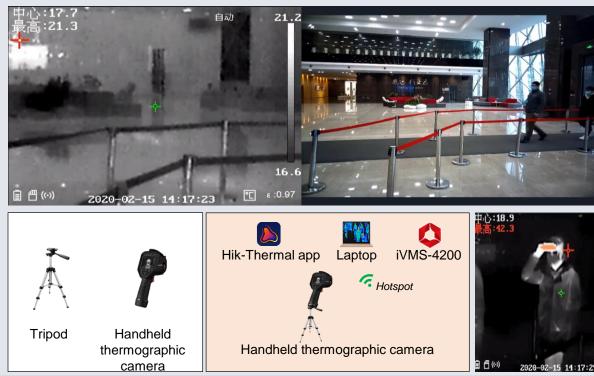


Short-term temperature Screening at Entrances – Handheld Camera

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 temperature screening 5 min after a person enters the indoor space



Product Information

- Thermal resolution: 160 × 120 ;
- Optical resolution: 640 × 480 ;
- Accuracy: ±0.5°C

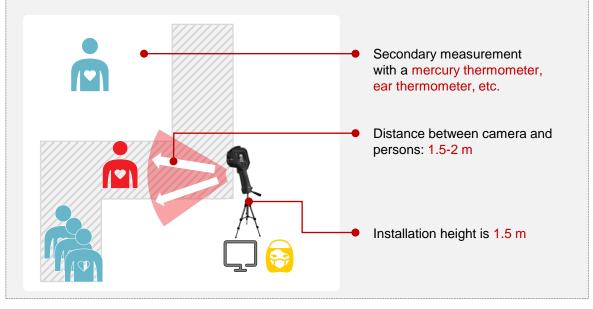
3.5" LCD touch screen

• Measurement range: 30-45°C



DS-2TP21B-6AVF

- 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





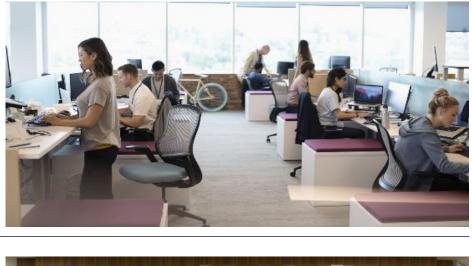
Note: Indoor installation recommended. The fluctuation in outdoor ambient temperatures influences the accuracy of temperature measurement.

Factory Workshop

Scenario



Office Building Office area





School Entrance of classroom



Bank Entrance of branch

Duo Protection without Touch

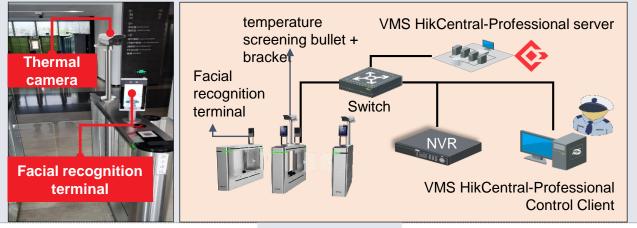
temperature Screening with Access Control

Solution Details

- Long-term temperature screening with access control for building related projects
- Indoor space

Scenario

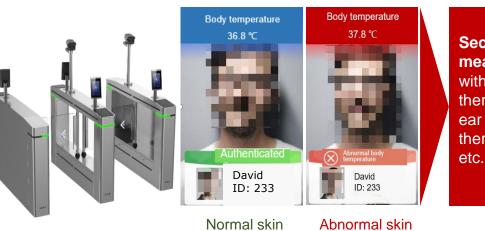
- Recommend to do temperature screening 5 min after a person enters the indoor space
- Centralized management of access control with temperature records



VMS centralized management of the access control system:

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





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

Normal skin temperature

Abnormal skir temperature

Product Information

- Face recognition & skin-surface temperature measurement
- Non-contact fast skin 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°C
- Accuracy: ±0.5°C

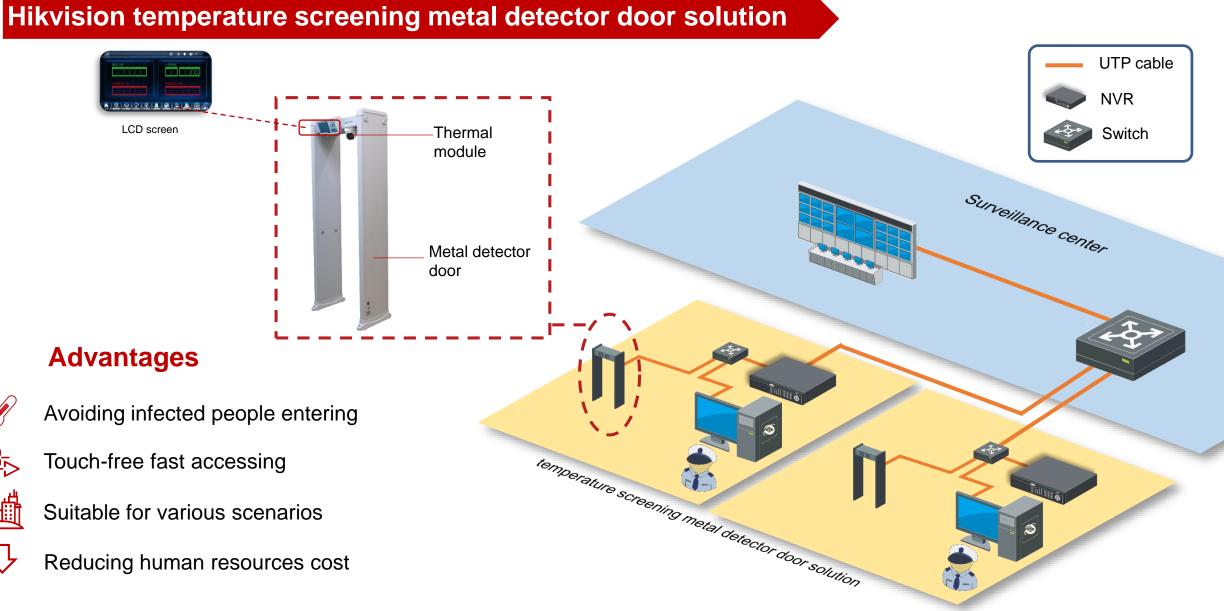


Thermo graphic module 7-inch touch screen



Duo Protection without A Touch temperature Screening with Metal detector door

Scenario



Application Scenarios

Scenar





Application Scenarios

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

School

Scenario



Entrance of library

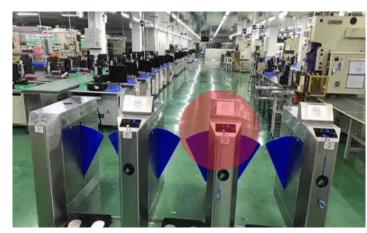


Entrance of dormitory

Factory



Entrance of factory



Entrance of workshop

Commercial Building

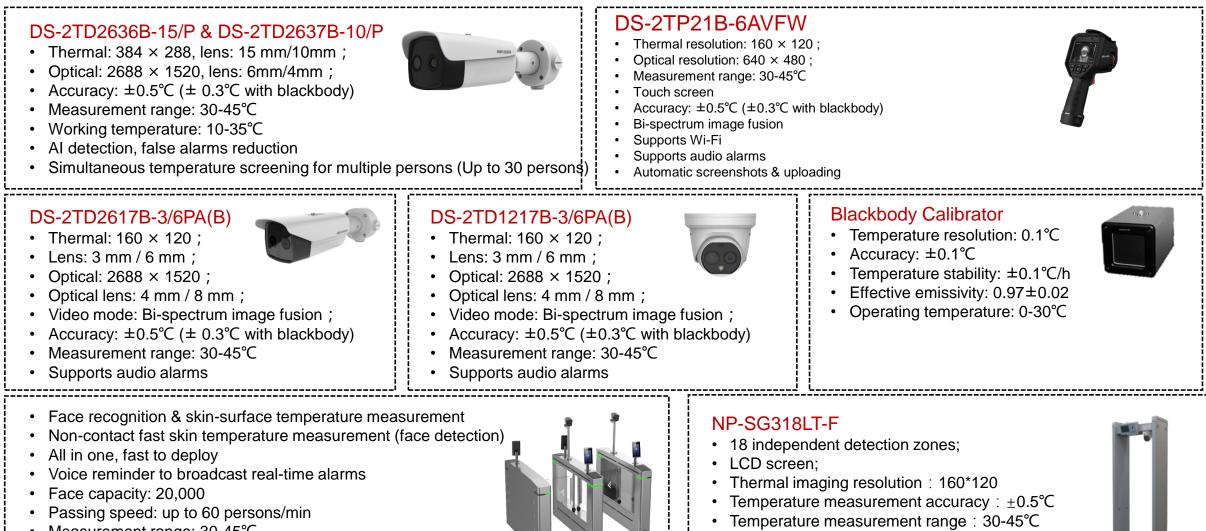


Elevator hall of parking lot



Main entrance of office building

Product List



- Video mode: Bi-spectrum image fusion;
 - In accordance with the international safety standard, friendly to pregnant woman, people with cardiac pacemaker, etc.

- Measurement range: 30-45°C
- Accuracy: ±0.5°C

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



Conclusion for the Key features :

1、What is the advantage for the thermal camera compared with the thermometer?

A. Safe. Non-contact, long range, reducing risks of cross-infection.

B. Efficient. up to 60 people per second .

C. Accurate. High accuracy :up to $\pm 0.3^{\circ}$ C with black body , $\pm 0.5^{\circ}$ C without black body.

D. Traceable. Combining temperature, image and human recognition with AI technology for easy and informed management.

2、What is the advantage for the Hikvision thermal camera compared with some other brand ?

A. Intelligent. Support AI detection ,can filter the false alarm .

B. Accurate. High accuracy :up to $\pm 0.3^{\circ}$ C with black body , $\pm 0.5^{\circ}$ C without black body.

C. Automatic. Some models can trigger the voice alarm when the abnormal temperature people was detected .

D. Cost effective



Thanks See far, go further