

# BODY TEMPERATURE DETECTION SOLUTIONS THERMAL IMAGING CAMERAS



# Let us help you keep your staff and passengers safe:

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- ✓ Currently you and hundreds of others have trusted us with our CCTV systems to protect your most valuable assets.
- ✓ We have provided you with a high quality reliable CCTV system.
- ✓ Now let us help keep your buses moving by ensuring your staff and passengers are well before they get on-board.
- ✓ Our Thermal temperature imaging solutions will ensure your staff and passengers are not at risk, are safe and able to get about their essential activities.
- ✓ We have the solution for your thermal imaging temperature detection requirements.



# What is thermal?

## Principle



Any object with temperature above absolute zero emits a detectable amount of radiation. The thermal camera converts IR radiation into a gray value, and establishes the accurate corresponding relation between gray value and temperature through the temperature measurement algorithm model.

## Application



It is well-known that one major symptom of virus infections is Body Temperature. Therefore, a thermal camera with **high temperature accuracy** can **detect the elevated body temperature for preliminary screening**.

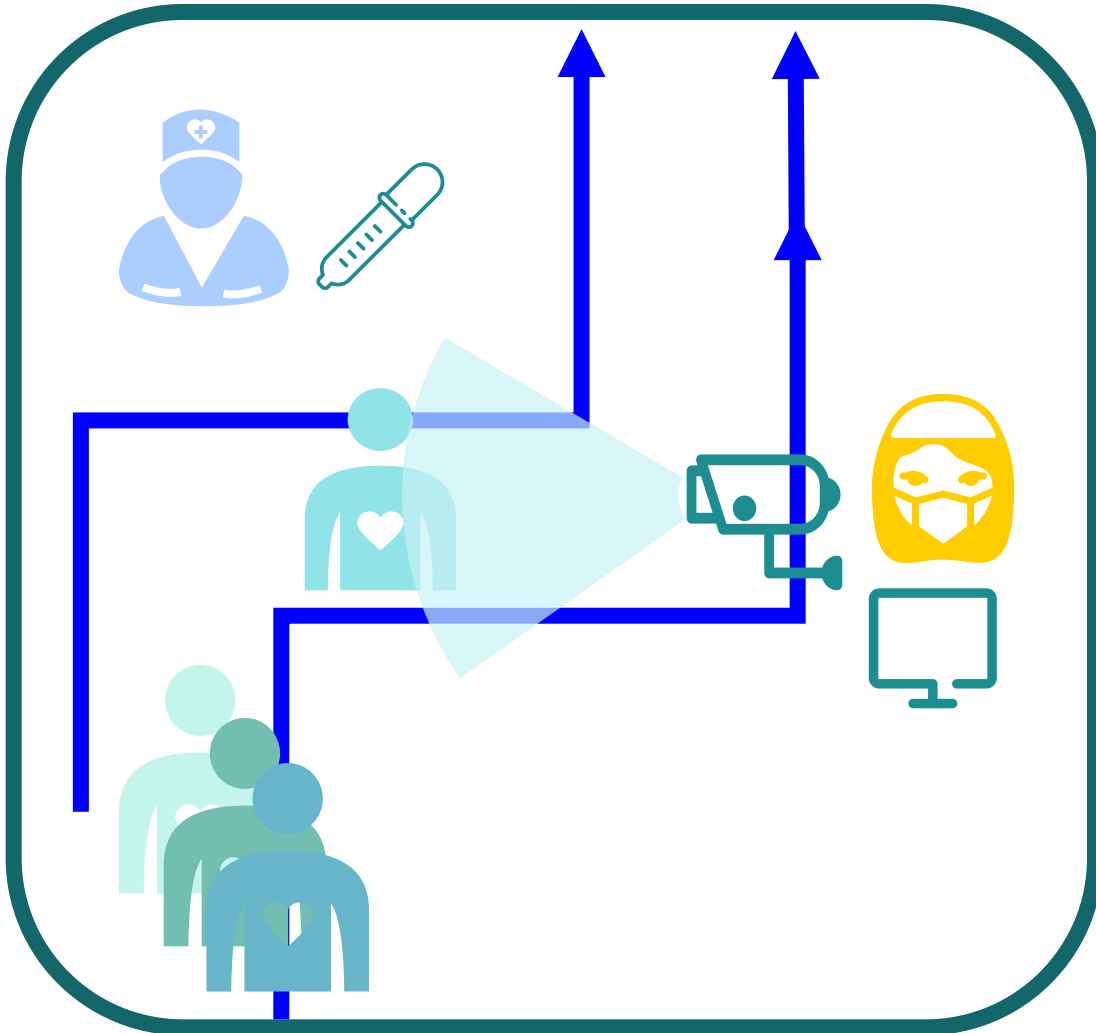
## Advantages



1. **High Efficiency:** It takes only one second for a thermal camera to detect the temperature of each person. This reduces congestion in the screening area when passing through the screening point.
2. **Safety:** The thermal camera supports non-contact temperature measurement which can accurately measure temperature at a distance of approximately one metre. This reduces the risk of infection from physical contact.



# Thermal Body Temperature Screening Process



## 1. Set up a detection zone

Set up a screening zone in an indoor area.



## 2. Thermal camera rapid screening

Use thermal Body Temperature screening to quickly screen persons as they pass.



## 3. Thermometer secondary check

Once Body Temperature symptoms are discovered, a medical officer should use a thermometer to confirm.

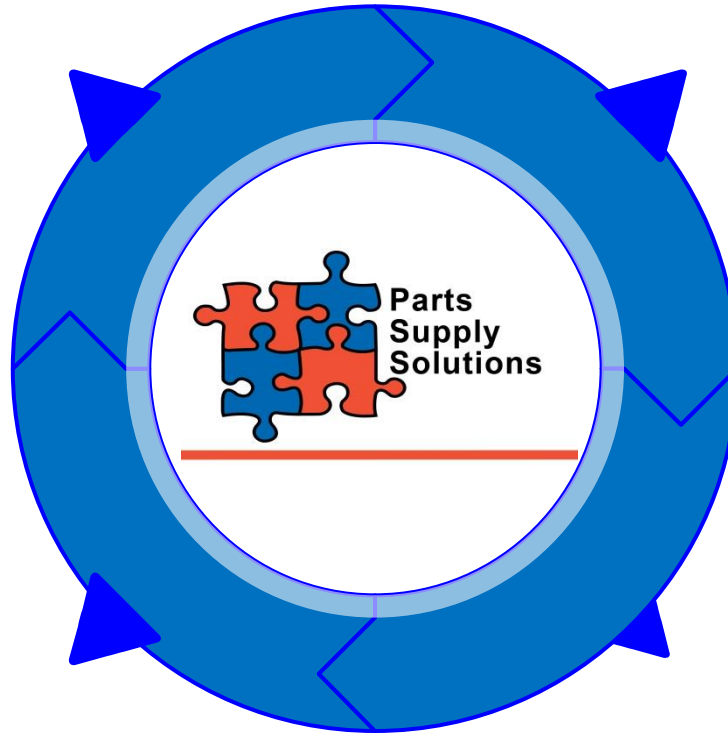
# Thermographic Body Temperature screening Advantages

## AI Face detection

Thermographic Body Temperature screening Bullet/Turret cameras provide AI (Artificial intelligence) Face Detection function, locating multiple faces intelligently and they measure the temperature of the faces only, to reduce false alarms from other heat sources.

## Onboard Audio Alarm

Thermographic Body Temperature screening Bullet/Turret cameras feature onboard audio alarms to notify the operator without the requirement of auxiliary sirens.



## Unique Self-developed Algorithm

The thermographic Body Temperature screening products are embedded with a self-developed algorithm, which is specially optimised for temperature measurement thermography. Combined with a constant temperature/dust-free automated manufacturing process with big data, Hikvision ensures the accuracy of their thermal cameras.

## Full solution

As your security solution provider, Parts Supply Solutions / Hikvision are able to provide a full one-stop solution include thermography cameras, CCTV cameras and driver fatigue cameras.

# Solution – Multiple Read Body Temperature Screening Thermographic Handheld Camera



iVMS-4200.



Hik-thermal

## Bus Depot Solution:

Set up in your depot and test your staff prior to beginning work.  
Professional thermographic handheld camera + Tripod  
(Optional) + iVMS-4200 (PC) / Hik-Thermal (Mobile APP)

## Solution Advantages:

- Thermographic handheld camera **supports WIFI**, able to integrate with PC / Mobile client, **real-time audio alarm and uploaded to computer screen to capture automatically.**
- Touch screen to ensure easy user experience
- Supports Flexible temperature measurement area.
- Accuracy is  $\pm 0.5$  degree, satisfies preliminary Body Temperature screening requirement.

## Set Up Tips:

- The camera is recommended to be installed 1.5 meter high from the ground in a stable environment, keep the distance between target and camera about **1.5-2 m**
- People pass by the thermographic camera one by one.



# Solution – Multiple Read Body Temperature Screening Thermographic Handheld Camera

## Thermal Thermographic Handheld Camera

Distance : 1.5 m

Speed : Real time

Display: Thermal image

Efficiency: 30 persons / minute

Information preservation: Screenshot / Video

WIFI supported

Part Number: HIK-2TP21B-64VFW



## Multiple read Thermographic Handheld Camera Advantages

- Keep distance between the operator and the target person, reduce the risk of disease transmission
- Higher efficiency, more suitable for flow of fast moving crowds.
- Easy to use, the operator needs only to read the maximum value in the screen
- Able to preserve the screenshot of potential risky target person as evidence
- Able to be integrated with PC/Mobile Client, to provide a more flexible solution



# Solution – Multiple Read Thermographic Body Temperature screening cameras

## Solution composition :

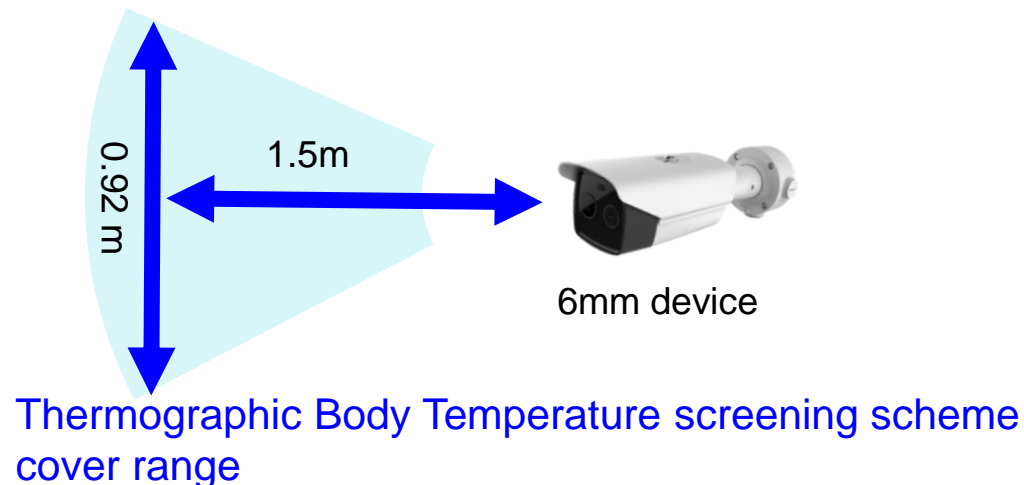
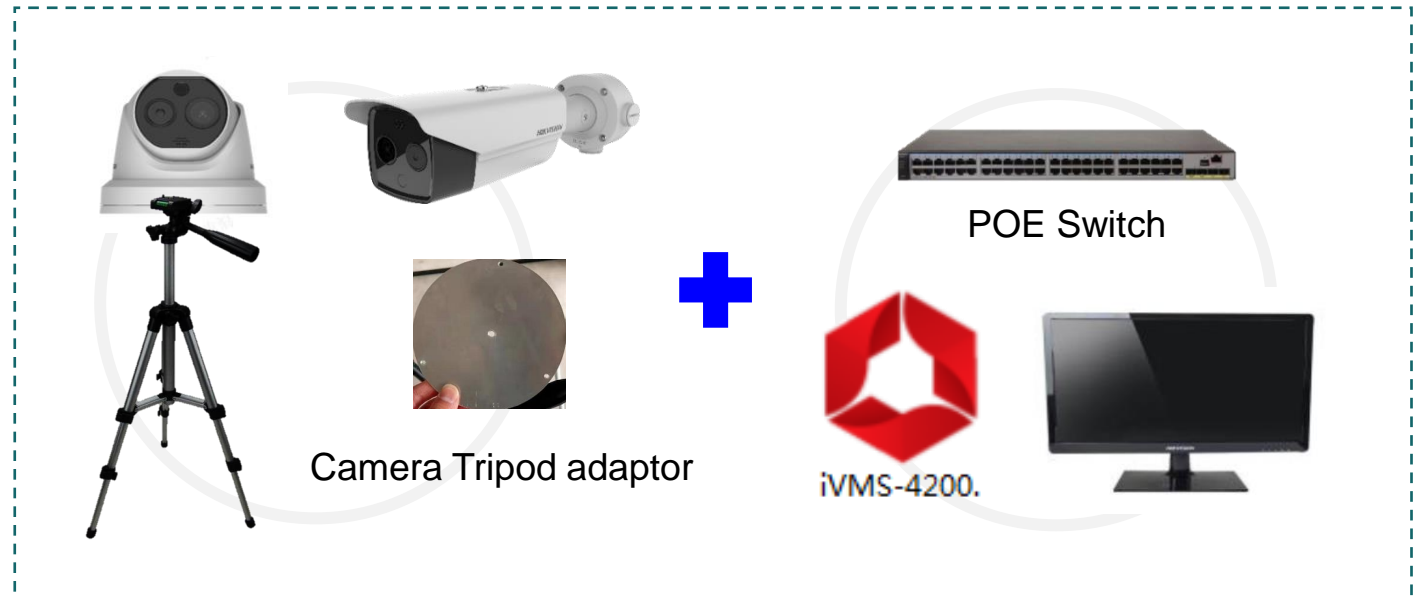
Thermographic Body Temperature screening bullet / turret camera + Tripod + Tripod adaptor + VMS(4200) + POE Switch

## Solution Advantages:

- Thermographic turret / bullet support human temperature-exception. **Audio alarm** to notify the operator.
- Quick deployment and simple configuration.
- Supports AI face detection, multiple target screening at the same time which minimizes false alarms.
- Accuracy is  $\pm 0.5$  degree to satisfy preliminary Body Temperature screening requirement

## Set up tips:

- The camera is recommended to be installed at a height of 1.5 meter, The distance between target and camera should be approximately 1 ~1.5 metres.
- Recommend to install in a stable environment without wind (indoors).





# Solution – Multiple read Thermographic Body Temperature screening



# Thermal Resolution Camera Products

## Thermal Bullet Camera

Ideal for:  
Multiple read  
Bus depot entrance screening



**Part Number: HIKDS-2TD2617B-6PA**

- Thermal : 160 × 120 ;
- Lens: 6mm ;
- Optical : 2688 × 1520 ;
- Optical lens: 4mm / 8mm ;
- Video mode : Bi-spectrum image fusion ;
- Accuracy :  $\pm 0.5^{\circ}\text{C}$
- Range : 30-45 $^{\circ}\text{C}$
- Audio alarm support

Thermal Turret Camera  
Ideal for: 'Pre' multiple read  
On Bus passenger detection



**HIKDS-2TD1217B-6PA**

- Thermal : 160 × 120 ;
- Lens: 6mm ;
- Optical : 2688 × 1520 ;
- Optical lens: 4mm / 8mm ;
- Video mode : Bi-spectrum image fusion ;
- Accuracy :  $\pm 0.5^{\circ}\text{C}$
- Range : 30-45 $^{\circ}\text{C}$
- Audio alarm support

## Accessories

- Tripod and tripod adaptors
- UNC 1/4"-20 tripod connection



**Part Number: PSS-TRIPOD**  
Bullet Camera Tripod Adaptor: HIK-DS2909ZJ  
Turret Camera Tripod Adaptor: HIK-DS2908ZJ

# FAQ

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## Q:Can the thermographic Body Temperature screening camera be installed outdoors?

**A: Outdoor wind and sun can affect the body surface temperature** and the working status of the camera, which results in a deviation between the measured body surface temperature and the actual body temperature.

To ensure accuracy, we strongly recommended the solutions be used indoors.

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## Q:Does the camera detect the face for temperature measurement

**A:** The camera detects faces when screening. It supports detection of up to 10 faces simultaneously but we recommended to carry out temperature measurement one at a time.

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## Q:Will other heat sources (such as tea cups, kettles, etc.) cause false alarms?

**A:** The cameras are able to use face recognition technology, so other heat sources will not cause false alarms.

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**Please contact us for further information on:**

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