Hikvision Elevated Skin-Temperature Solutions

A Wide Range of Solutions For Your Temperature Screening Applications

Hikvision Elevated Skin-Temperature Solutions, available in multiple product types, are designed to detect elevated or abnormal skin-surface temperatures to enable rapid and safe preliminary temperature screening with high accuracy in a multitude of scenarios.

- Low Resolution Cameras
- High Resolution Cameras
- Handheld Cameras
- Accessories
Pain Points of Conventional Methods

Conventional methods that do not use preliminary screening have several disadvantages:

- **Close Contact, High Risk**
  Close contact with individuals leads to potential risks

- **High Cost, Low Efficiency**
  Increased staff required, and one-to-one inspection is inefficient and costly

- **Added Expenses**
  Continual replacement of personal protective equipment (PPE) is required

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We Offer a Better Approach

An approach that incorporates competent technologies, offers many advantages:

- **Safer**
  Non-contact measurement to avoid physical contact

- **Faster**
  One second per person for skin-surface temperature detection

- **Smarter**
  Smart detection, greatly reducing false alarms*

  *Smart detection is not available on handheld models.

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Advantages of Thermal Technology

- Smart detection ensures thermographic cameras only detect human skin-surface temperature to reduce false alarms caused by other heat sources such as a cup of coffee.

- Advanced algorithms ensure the temperature is compensated with ambient temperature and the distance of the measured target for better accuracy.

- Thermal technology is ideal for temperature screening in a variety of applications, offering flexibility and efficiency in preliminary screening of elevated skin-surface temperatures.

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Elevated Skin-Surface Temperature Detection Process

1. **Enter detection area**
2. **Perform human skin-surface temperature measurement**
   Immediate preliminary temperature screening without contact
3. **Discover potential abnormal temperatures**
4. **Perform a secondary check**
   Conducted by qualified personnel using approved medical devices.
Solution Overview

Temperature Screening with Fast Deployment

**Thermographic Cameras**
- Visualized bi-spectrum live view

**Wireless Devices**
- Easy connection, cable-free real-time sound and light alarm

**Stand-Alone Handheld Device**
- Ideal for immediate screening on-site

* May require use of PPE

Flexible product choice for a variety of temperature screening applications.

Temperature Screening Packages

**Turret/Bullet Camera**
- iVMS-4200 + Laptop + Tripod/Bracket
  - Accuracy: ±0.5° C
  - The turret/bullet camera uses human body detection technology to reduce false alarms caused by other heat sources.

**Turret/Bullet Camera + Blackbody Calibrator**
- iVMS-4200 + Laptop + Tripod/Bracket
  - Accuracy: ±0.3° C
  - This solution is enhanced with a blackbody calibrator to increase accuracy from ±0.5° C to ±0.3° C.

**Handheld Camera**
- iVMS-4200 or Hik-Thermal (app) + Tripod
  - Accuracy: ±0.5° C
  - With a Wi-Fi module, the handheld camera can connect to a PC or a smartphone. It also features a built-in speaker or audio for alarm.

Operation Tips
- Install the devices in a stable indoor environment without wind or direct sunlight
- Set up a specific temperature measurement zone
- If abnormal skin-service temperature is detected, qualified personnel using approved medical devices should perform a secondary check
- Please ensure operation meets local privacy laws and regulations

Temperature Screening Packages

**Group Temperature Screening**
- Thermographic Bullet Camera
  - Supports simultaneous temperature screening for multiple people at one time, greatly enhancing efficiency (Up to 30 people)

**Temperature Screening on Patrol**
- Thermographic Handheld Camera
  - Supports immediate detection and preliminary screening avoiding unnecessary physical contact

**Manage Cameras From A Safe Distance**
- Use an I-Series NVR (DS-7608NI-I2/8P) or PC Laptop with iVMS-4200 software to manage the cameras from a safe distance.

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Disclaimer: Hikvision's Thermographic Cameras are designed for immediate detection and preliminary screening of elevated skin-surface temperature in high-traffic areas. When measuring core body temperature, please verify through the use of clinical measurement devices and/or by consulting a medical professional. Hikvision's Thermographic Cameras must be used in accordance with local laws and regulations.
### Product Showcase

#### Thermographic Cameras

**Thermographic Bullet Camera**

- **DS-2TD2636B-13/P**
  - Thermal resolution: 384 x 288
  - Thermal lens: 13 mm
  - Optical: 2688 x 1520
  - Optical lens: 6 mm
  - Accuracy: ±0.5°C (±0.3°C with blackbody)
  - Measurement range: 30°C to 45°C (86°F to 113°F)
  - Operating temperature: 10°C to 35°C (50°F to 95°F)
  - Human body detection technology, false alarm reduction
  - Simultaneous temperature screening for multiple people (Up to 30 people)

**Thermographic Turret Camera**

- **DS-2TD1217B-3/6PA**
  - Thermal resolution: 160 x 120
  - Thermal lens: 3 mm
  - Optical: 2688 x 1520
  - Optical lens: 4 mm
  - Bi-spectrum image fusion
  - Accuracy: ±0.5°C (±0.3°C with blackbody)
  - Measurement range: 30°C to 45°C (86°F to 113°F)
  - Operating temperature: 10°C to 35°C (50°F to 95°F)
  - Human body detection technology, false alarm reduction
  - Simultaneous temperature screening for multiple people (Up to 30 people)

**Thermographic Handheld Camera**

- **DS-2TP31B-3AUF**
  - High sensitivity sensor with 160 x 120 resolution
  - High quality 320 x 240 resolution
  - 2.4” LCD display
  - Up to 4 palettes
  - Wide temperature measurement range: 30°C to 45°C (86°F to 113°F)
  - Operating temperature: 10°C to 35°C (50°F to 95°F)
  - High temperature measurement accuracy: Up to ±0.5°C
  - Built-in rechargeable Li-ion battery
  - Up to 8 hour continuous operation

**Thermographic Turret Camera**

- **DS-2TD2617B-3/6PA**
  - Thermal resolution: 160 x 120
  - Thermal lens: 3 mm / 6 mm
  - Optical: 2688 x 1520
  - Optical lens: 8 mm
  - Bi-spectrum image fusion
  - Accuracy: ±0.5°C (±0.3°C with blackbody)
  - Measurement range: 30°C to 45°C (86°F to 113°F)
  - Operating temperature: 10°C to 35°C (50°F to 95°F)
  - Human body detection technology, false alarm reduction
  - Simultaneous temperature screening for multiple people (Up to 30 people)

**Thermographic Handheld Camera**

- **DS-2TP127B-6AVF/W**
  - Thermal resolution: 160 x 120
  - Optical resolution: 640 x 480
  - Measurement range: 30°C to 45°C (86°F to 113°F)
  - Operating temperature: 10°C to 35°C (50°F to 95°F)
  - Touch screen
  - Accuracy: ±0.5°C
  - Bi-spectrum image fusion
  - Supports Wi-Fi
  - Supports audio alarms
  - Automatic screenshots & uploading
  - Removable, rechargeable Li-ion battery
  - Up to 4 to 5 hours continuous operation

**Blackbody Calibrator**

- **DS-2TE127-G4A**
  - Temperature resolution: 0.1°C
  - Accuracy: ±0.1°C
  - Temperature stability: ±0.1°C/h
  - Effective emissivity: 0.97±0.02
  - Operating temperature: 0°C to 40°C

**I Series NVR**

- **DS-7608NI-I2/8P**
  - Up to 8 IP Cameras Can Be Connected
  - 80 Mbps Incoming Bandwidth
  - 80 Mbps/256 Mbps
  - HDMI Video Output up to 4K (3840 x 2160)

### Monitors

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
</table>
| DS-D5022QE-B | • LED Backlit Technology with 1920x1080 resolution  
Highly Reliable for 24/7 Use  
View angle: 170°(H)/160°(V)  
Image processing: 3D comb filter, 3D De-interface, 3D noise reduction  
Inputs: HDMI, VGA  
Includes desktop stand |
| DS-D5022FC  | • LED Backlit Technology with 1920x1080 resolution  
Highly Reliable for 24/7 Use  
View angle: 170°(H)/160°(V)  
Image processing: 3D comb filter, 3D De-interface, 3D noise reduction  
Inputs: HDMI, VGA, BNC, Audio in  
Includes desktop stand |
| DS-D5027UC  | • LED Backlit Technology with Full HD 1920x1080  
27” LED Monitor  
Wide View Angle: 178°H/178°V  
Three image Modes for Different Environments  |
| DS-D5032FL  | • LED Backlit Technology with 1920x1080 resolution  
Highly Reliable for 24/7 Use  
View angle: 178°H/178°V  
Inputs: HDMI, VGA, BNC, DVI, Audio in, USB  
Metal shell  
VESA Standard |
| DS-D5043UC  | • LED Backlit Technology with 2840x2160 resolution  
Highly Reliable for 24/7 Use  
View angle: 178°H/178°V  
Inputs: HDMI2, RS232, VGA, Audio in, USBx2  
VESA Standard |

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Hikvision Thermographic Coverage Comparison Chart

Note: Coverage may vary based on installation height and angle of view

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**LEGEND**

- Horizontal FOV
- Effective Detection Area

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**DS-2TP21B-6AVF/W**

- 2m horizontal FOV
- 1.5m effective detection area

**DS-2TP31B-3AUF**

- 1.5m horizontal FOV
- 0.8m effective detection area

**DS-2TD1217B-3/PA**

- 1.5m horizontal FOV
- 0.8m effective detection area

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**LEGEND**
- Horizontal FOV
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<tr>
<th>Camera Model</th>
<th>Effective Detection Area</th>
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<tbody>
<tr>
<td>DS-2TD2617B-6/PA</td>
<td>3m x 1.5m</td>
</tr>
<tr>
<td>DS-2TD2636B-13P</td>
<td>7m x 2.5m</td>
</tr>
<tr>
<td>DS-2TD2636B-15P</td>
<td>9m x 2.5m</td>
</tr>
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