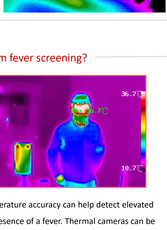
Hikvision Fever Screening Thermal Cameras

Thermal Principle

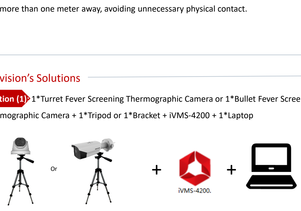
Any object with temperatures above absolute zero emits a detectable amount of infrared radiation. A thermal camera senses such radiation and produce thermal images. A thermal camera converts IR radiation into grayscale values, and matches grayscale values to temperature values through an algorithm model.

Based on Hikvision's proprietary advanced detectors and algorithms,

Hikvision Fever Screening Thermal Cameras can achieve up to ±0.3℃ accuracy (with a blackbody calibrator).



How does a thermal camera perform fever screening?



Application: Thermal cameras with high temperature accuracy can help detect elevated body temperatures which may indicate the presence of a fever. Thermal cameras can be used for the fever screening of travelers, shoppers, and office workers.

Advantages:

1. **High Efficiency:** It takes only one second for a thermal camera to detect temperature of a person, thus allows screening of large numbers of people at a time.
2. **Safety:** Thermal cameras feature non-contact temperature measurement from about more than one meter away, avoiding unnecessary physical contact.

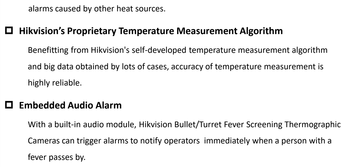
Hikvision's Solutions

Solution (1) 1*Turret Fever Screening Thermographic Camera or 1*Bullet Fever Screening Thermographic Camera + 1*Tripod or 1*Bracket + iVMS-4200 + 1*Laptop

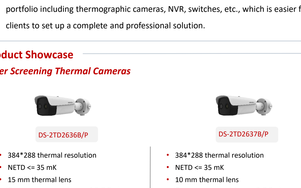
Turret Fever Screening Thermographic Camera and Bullet Fever Screening Thermographic Camera can achieve accuracy of ±0.5℃, both supporting AI-powered human body detection to reduce false alarms caused by other heat sources.

Tips for Installation

Field Application



Solution (2) 1*DS-2TP21B-6AVF/W + 1*Tripod + iVMS-4200 or Hik-Thermal (mobile app)



Handheld Fever Screening Thermographic Camera (TP21B) can achieve accuracy of ±0.5℃. With a Wi-Fi module, TP21B can connect to a PC or smartphone. Besides, TP21B also features audio alarms with a built-in speaker.

Solution (3) 1*Turret Fever Screening Thermographic Camera or 1*Bullet Fever Screening Thermographic Camera + 1*Blackbody calibrator + iVMS-4200 + 1*Laptop

Compared with solution (2), solution (3) is enhanced with a blackbody calibrator to increase the temperature measurement accuracy from ±0.5℃ to ±0.3℃.

Note: The blackbody calibrator is recommended to be installed 1.2 meters in front of the thermal camera.

Why choose Hikvision's solutions?

- **AI Human Body Detection**

  Hikvision Bullet/Turret Fever Screening Thermographic Cameras feature AI human body detection to fix the measurement areas to human bodies, thus reducing false alarms caused by other heat sources.

- **Hikvision's Proprietary Temperature Measurement Algorithm**

  Benefitting from Hikvision's self-developed temperature measurement algorithm and big data obtained by lots of cases, accuracy of temperature measurement is highly reliable.

- **Embedded Audio Alarm**

  With a built-in audio module, Hikvision Bullet/Turret Fever Screening Thermographic Cameras can trigger alarms to notify operators immediately when a person with a fever passes by.

- **One-Stop Solution**

  As a world's leading security solution provider, Hikvision offers a rich product portfolio including thermographic cameras, NVR, switches, etc., which is easier for clients to set up a complete and professional solution.

Product Showcase

Fever Screening Thermal Cameras

DS-2TD2636B/P

- 384*288 thermal resolution
- NETD <= 35 mK
- 15 mm thermal lens (Recommended distance: 4.5-9.0m)
- 6 mm optical lens
- Supports thermal and optical image fusion
- Temperature measurement range: 30-45℃
- Working temperature: 10-35℃
- Temperature accuracy: ±0.3℃ with blackbody ±0.5℃ without blackbody
- Supports AI human body detection

DS-2TD2637B/P

- 384*288 thermal resolution
- NETD <= 35 mK
- 10 mm thermal lens (Recommended distance: 3-7.0m)
- 4 mm optical lens
- Supports thermal and optical image fusion
- Temperature measurement range: 30-45℃
- Working temperature: 10-35℃
- Temperature accuracy: ±0.3℃ with blackbody ±0.5℃ without blackbody
- Supports AI human body detection

DS-2TD1217B/PA DS-2TD1217B/PA

- 160*120 thermal resolution
- NETD <= 40 mK
- 3 / 6 mm thermal lens (Recommended distance: 0.8-1.5m/ 1.5-3.0m)
- 4 / 6 mm optical lens
- Supports thermal and optical image fusion
- Temperature measurement range: 30-45℃
- Working temperature: 10-35℃
- Temperature accuracy: ±0.3℃ with blackbody ±0.5℃ without blackbody
- Supports AI human body detection
- Supports audio alarms

DS-2TP21B-6AVF/W

- 160*120 thermal resolution
- Max 8 MP optical resolution
- NETD <= 40 mK
- 6 mm thermal lens (Recommended distance: 1.5-3.0m)
- Supports thermal and optical image fusion
- Temperature measurement range: 30-45℃
- Working temperature: 10-35℃
- Temperature accuracy: ±0.5℃
- Supports Wi-Fi
- Supports audio alarms

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