

Body Temperature Screening Thermal Solutions and Products

Thermal Camera for Body Temperature Screening

Principle

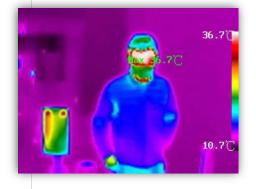
Any object with temperature above absolute zero emits a detectable amount of radiations. Thermal camera converts IR radiations into gray value, and establishes the accurate corresponding relation between gray value and temperature through the temperature measurement algorithm model. The model (Temperature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

Application

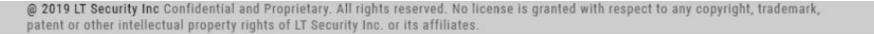
It is well-known that one major symptom of virus infections is fever. Therefore, thermal camera with high temperature accuracy can detect the elevated body temperature to make the preliminary screening. Thermal cameras are advisable to be installed at the places with long queues such as passport control.

Advantages

- 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.
- 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.

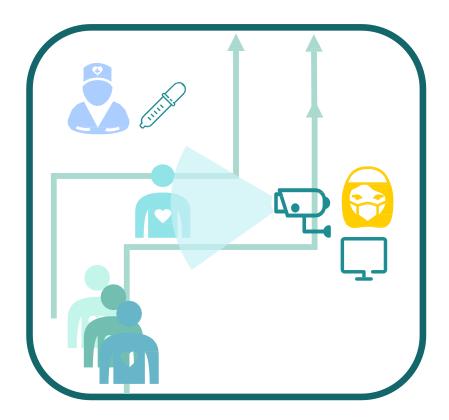








Body Temperature Screening Process





1. Set up a pedestrian path Set up a quick path <u>in the indoor space</u> to separate space into few parts.



2. Thermal camera quick screening Using thermal fever screening solutions to do quick screening of moving crowd and ensure the efficiency



3. Thermometer secondary check Use a thermometer to do secondary check for people who are suspicious of fever





Features of Solutions

Advanced Algorithms

Achieve highly reliable accuracy with Hikvision's proprietary temperature measurement algorithms

Bi-Spectrum Monitoring

Provide both thermal and optical image channels apart from temperature measurement

Embedded Audio Alarm

Trigger alarms to notify operators immediately when an abnormal temperature is detected

One-Stop Solution

Offer an extensive product portfolio including thermal cameras, NVRs, switches, etc.



IR radiation Grayscale values

Increased Safety Non-contact measurement from a distance

Turret/Bullet Thermal Cameras

	Camera Only Solution		
Brand	LTS		
Image			00
Model	DS-2TD1217B-3/PA	DS-2TD2617B-6/PA	DS-2TD2636B-13/P
Face Detection	30 at a time	30 at a time	30 at a time
Thermal Resolution	160 x 120	160 x 120	384 x 288
Thermal Lens	3mm	6mm	13mm
Optical Resolution	4MP	4MP	4MP
Accuracy	±0.5 °C (0.9°F) w/o Black Body	±0.5 °C (0.9°F) w/o Black Body	±0.5 °C (0.9°F) w/o Black Body
NETD	<=40mK@ 25°C, f/1.1	<=40mK@ 25°C, f/1.1	<=35mK@ 25°C, f/1.0
Local Storage	128GB microSD	128GB microSD	128GB microSD
NVR Integration	Yes	Yes	Yes
Price	\$5,599	\$5,599	\$7,699
Lead Time	1-2 Weeks	1-2 Weeks	1-2 Weeks

Compatible LTS NVRs	NVR Model		
	LTN8608-P8		
	LTN8616-P16		
	LTN8916H		
	LTN8916H-P16		
	LTN8932H		
	LTN8932H-P16		
	LTN8932H-P24		
	LTN8932-8		
	LTN8964-8		
	LTN8932-R		
Accessories	LTN8964-R		
///////////////////////////////////////			
standard 1/4"-20 Tripod DS-2907ZJ (sold separately)			
 standard 1/4"-20 (Can be pu 	 standard 1/4"-20 (Can be purchase elsewhere) 		
Turret Tripod adapter DS-2908ZJ (Free of Charge)			
Connection between 1/4"-20	Connection between 1/4"-20 tripod and turret camera		
Bullet Tripod adapter DS-2909ZJ (Free of Charge)			

Connection between 1/4"-20 tripod and Bullet camera



Long-Range Application

Solution Composition:

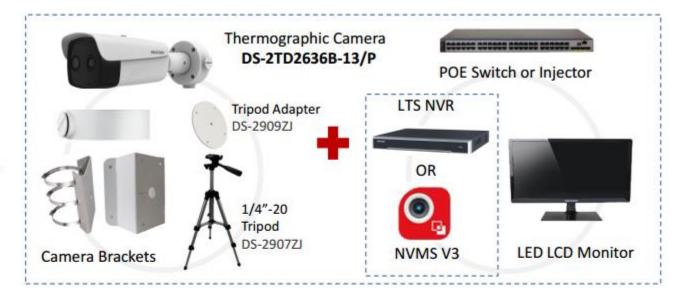
384x288 resolution thermographic camera + mounting bracket(s) + NVR or NVMS V3 + PoE switch + monitor

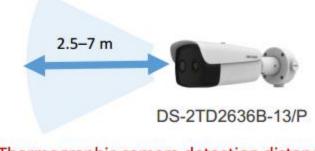
Solution Advantages:

- Thermal resolution of 384x288 provides more temperature points and farther/wider detection area
- Measure objects at distances of 2.5 to 7 meters.
- Mountable on tripod/pole or building structure for temporary or long-term use
- Accuracy of ±0.5°C (± 0.9°F)
- Integrated 4 MP optical camera satisfies normal monitoring requirement

Set Up Tips:

- Set up the solution in a stable indoor environment without wind or direct sunlight
- Power on for 30 minutes before measuring





Thermographic camera detection distance



Short/Mid-Range Application

Solution Composition:

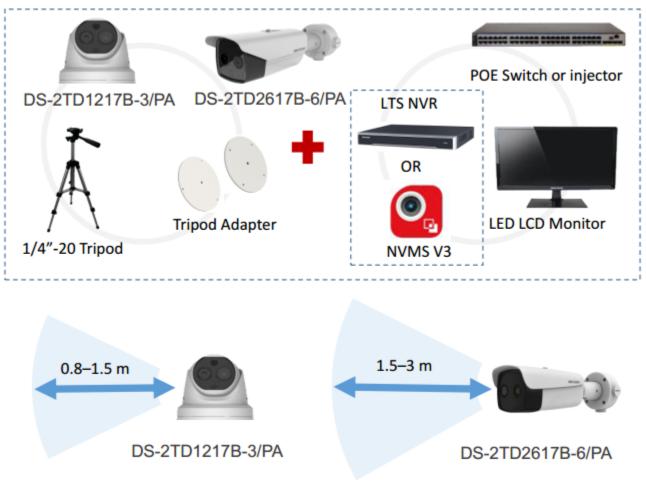
160x120 resolution thermographic camera + tripod + tripod adaptor + NVR or NVMS V3 + PoE switch + monitor

Solution Advantages:

- Embedded audio alarm can immediately notify operators of high temperature
- Mountable on tripod/pole or building structure for temporary or long-term use
- Accuracy of ±0.5°C (± 0.9°F)
- Integrated 4 MP optical camera satisfies normal monitoring requirement

Setup Tips:

- Set up the solution in a stable indoor environment without wind or direct sunlight
- Power on for 30 minutes before measuring



Thermographic camera detection distance



Solution-Turret/Bullet Thermal Camera







Applications





Advantages



Unique Self-developed Algorithm

Hikvision thermographic fever screening products are embedded with self-developed algorithm, which specially optimized for temperature measurement thermography. Combined constant temperature/dust-free

automated manufacturing process with big data, Hikvision could ensure the accuracy of thermal cameras

Full solution

As the world's leading security solution provider, Hikvision are able to provide full one-stop solution include thermography, NVR, barriers, detector door, switch. More convenient for customer and user

Onboard Audio Alarm

AI Face detection

Hikvision thermographic fever screening

Bullet/Turret cameras provide AI Face Detection

the faces only, to reduce false alarm from other

function, locate multi faces intelligently and measure

Hikvision thermographic fever screening Bullet/Turret cameras are able to do onboard audio alarm, notice the operator without the requirement of other sirens, reduce the complexity of whole

solution.

heat sources.



FAQ

Q:Can the thermographic fever screening camera be installed outdoors?

A: NO, Outdoor wind and sun can easily 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. From the perspective of ensure the accuracy, we strongly recommended the solutions used indoors. **Q:Does the camera recognize the face for temperature measurement**

A: The camera recognizes faces when screening. It supports up to 30 faces. But still we recommended to carry out temperature measurement one by one.

Q:How long can I use the fever screening function after the camera is turned on?

A: 5 minutes after the handheld camera is turned on, 30 minutes after the bullet / turret camera is turned on.

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

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

