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StayWell

Documentelligence™: Innovative Solutions, Services & Support

thermal temperature monitoring

Protective Screening

The Documentelligence™ Thermal Temperature Monitoring System is an efficient, visible, real-time solution designed to ensure the health and safety of all your visitors and staff. The Documentelligence™ Thermal Temperature Monitoring System is capable of identifying individuals with an elevated temperature. With a built-in AI algorithm, it can monitor multiple people from a distance of 9.8 feet away and 4.3 feet wide, enabling fast assessment without personal contact.

Speed &Accuracy.

The Documentelligence™ Thermal Temperature Monitoring System offers the latest hybrid thermal network camera that combines a Vanadium Oxide (VOx) sensor with a 2 MP visible-light sensor. The solution also provides a blackbody calibration device that maintains a customizable constant temperature as a reference point for the thermal camera. The thermal camera coupled with the blackbody calibration device and a feature-rich 4 TB Network Video Recorder delivers a contactless solution for continuous and non-invasive comparison of human skin temperature compared to the blackbody device. Thermal Temperature Monitoring technology enables quick detection of elevated skin temperatures compared to the customizable blackbody calibration device.

Features

☑ Safe, Efficient, and Accurate Temperature Monitoring

☑ ±0.3° C (±0.54° F) Temperature Measurement (with blackbody)

☑ Long-distance Rapid Screening at up to 4.50 m (15.0 ft)

☑ Monitoring 30 People per Second

☑ Enhanced Power and Data Transmission Distances (ePoE)

High Efficiency

Manageable

±0.3°C

**Safe
Non-contact**
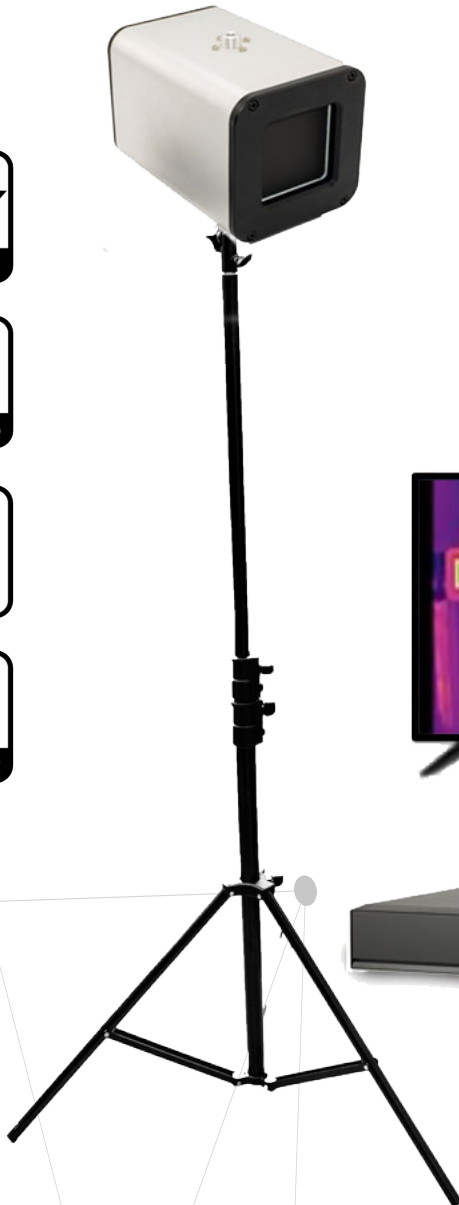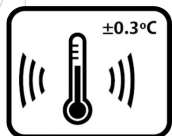
Blackbody

Required for human body temperature
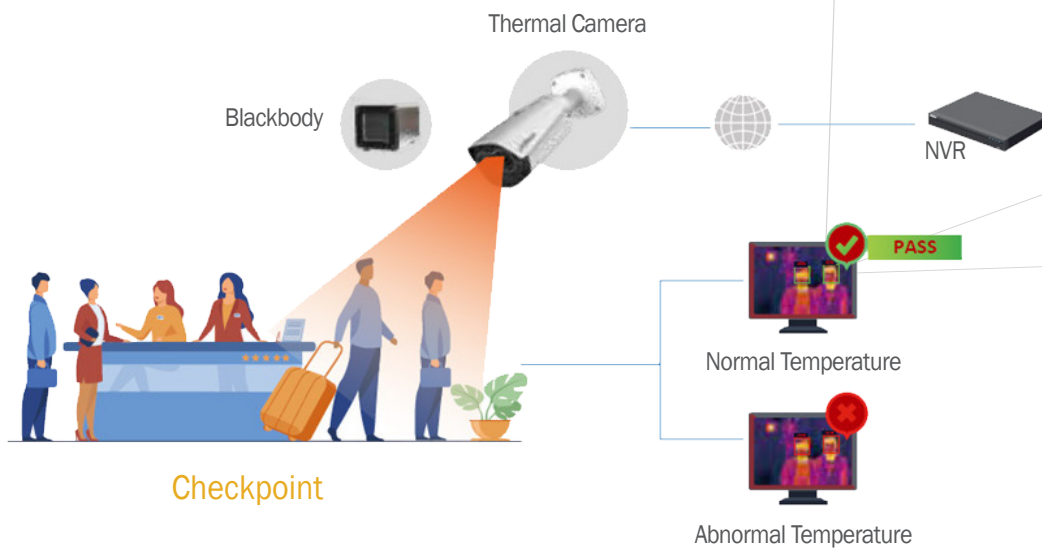
(includes power adapter)
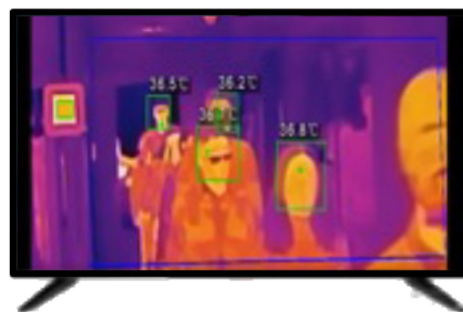
Network Video Recorder (NVR)

16-Channel 1 U 16 PoE NVR

Statistical report and export

4 channels mask detection

4 channels face recognition

Thermal Hybrid Network Camera

Athermalized lens,

Visible 2MP, 8mm lens

Thermal 300x400, 13mm

Blackbody

Thermal Camera

NVR

PASS

Normal Temperature

Abnormal Temperature

Checkpoint

- Accurate temperature monitoring

- Fast screening without personal contact

- Monitoring of multiple people at the same time for greater efficiency

- Visual alert when abnormal results are detected

What happens if a high temperature is detected?

This solution should not be solely or primarily used to diagnose or exclude a diagnosis of COVID-19 or any other disease. Elevated body temperature should be confirmed with secondary evaluation methods (e.g., an NCIT or clinical grade contact thermometer). Users, through their experience with the Solution in the particular environment of use, should determine the significance of any fever or elevated temperature based on the skin telethermographic temperature measurement. Visible thermal patterns are only intended for locating the points from which to extract the thermal measurement.

Is the Documentelligence™ Thermal Temperature Monitoring System a hands-free operation?

Yes, its embedded thermal & face recognition sensors provide 100% hands-free user authentication.

If I have an abnormal temperature will it set off an alarm?

The camera is equipped with a white-light illuminator and an external speaker that can be triggered when the camera detects an abnormal event (which relies on user-defined parameters) either via the thermal or the visible-light sensor. The camera also takes a snapshot of the scene and can record the snapshot.

Will Documentelligence™ Thermal Temperature Monitoring System detect if a face mask is being worn?

Yes, it detects if a protective mask (and other headgear) is being worn. It will also detect hot or cold beverages and exclude them from the temperature reading.

Sunglasses / Hat | Medical Mask | Ski Mask | Helmet | Multiple People | Hot Drink Non-detection

Where is the Documentelligence™ Thermal Temperature Monitoring System recommended?

Documentelligence™ Thermal Temperature Monitoring equipment can easily be installed and implemented to detect elevated skin temperature in environments such as airports, hospitals, clinics, office buildings, cruise ships, and any large public gathering location.

Installation Recommendations

Thermal Camera and Blackbody Setup

Lens Focal Length	Distance Between Camera and Blackbody	Distance Between the Human Forehead and the Camera
13.0. mm	3.0 m (118.11 in)	3.0 m (118.11 in.)

Notes:
- The accuracy of temperature monitoring is best when the human forehead and blackbody are at the same distance from the camera.
- Place the camera 0.20 m to 0.50 m (7.87 in. to 19.69 in.) higher than the blackbody.
- Ensure the blackbody radiation surface is completely facing the thermal camera.

Installation Recommendations

Monitoring

Height	Thermal Camera	2.0 m to 3.0 m (78.74 in. to 118.11 in.)
	Blackbody	1.80 m to 2.50 m (70.87 in. to 98.43 in.)
Blackbody Setting	Ambient Temperature	Blackbody Temperature
	10° C to 32° C (50° F to 89.6° F)	35° C (95° F)
	10° C to 35° C (50° F to 95° F)	38° C (100.4° F)
Effective Distance	2.0 m to 7.0 m (78.74 in. to 275.60 in.)	
Rate	up to 30 people per second	

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