

Temperature Detection Solution



Solution Overview

The pandemic of respiratory illness (COVID-19) caused by novel coronavirus (SARS-CoV-2) is spreading in all regions, with more than 175 countries and territories with reported cases. A prominent expression of the virus in affected humans is an above normal temperature. While it is certainly possible that people infected with the virus may be asymptomatic; many organizations are reportedly using thermometers to check temperatures of employees reporting to work or people entering their buildings in order to proactively identify those that may be suffering from Coronavirus. The challenge with this method is it is labor intensive to deploy, often generates queuing of people (which goes against social distancing guidelines), creates bottlenecks at access/ exits locations, entails certain risks because it requires human contact and may be prone to error if an orderly process is not adhered to.

Challenges to other available solutions include the ability to accurately measure the temperature of humans (thermal cameras natively compare the temperatures of the objects within its field of view rather than a constant value spectrum) and false alerts triggered by objects in the camera's field of view such as a car's exhaust, an incandescent light or a hot cup of coffee.

Deep Vision AI Inc. in partnership with Intellisite now provides a comprehensive solution that combines Deep Vision's proprietary advanced computer vision technology with Intellisite's All-In-One Human Based Monitoring (hBM) system. Together, this solution delivers a smarter application to detect elevated body temperatures in real-time to identify high-risk individuals and create actionable outcomes. Alerts are logged to enable auditing and other data tracking processes. Ultimately Deep Vision's AI-enabled software when paired with Intellisite's IoT Monitoring platform, thermal temperature calibration design, integration and deployment capabilities delivers a powerful value proposition for customers.

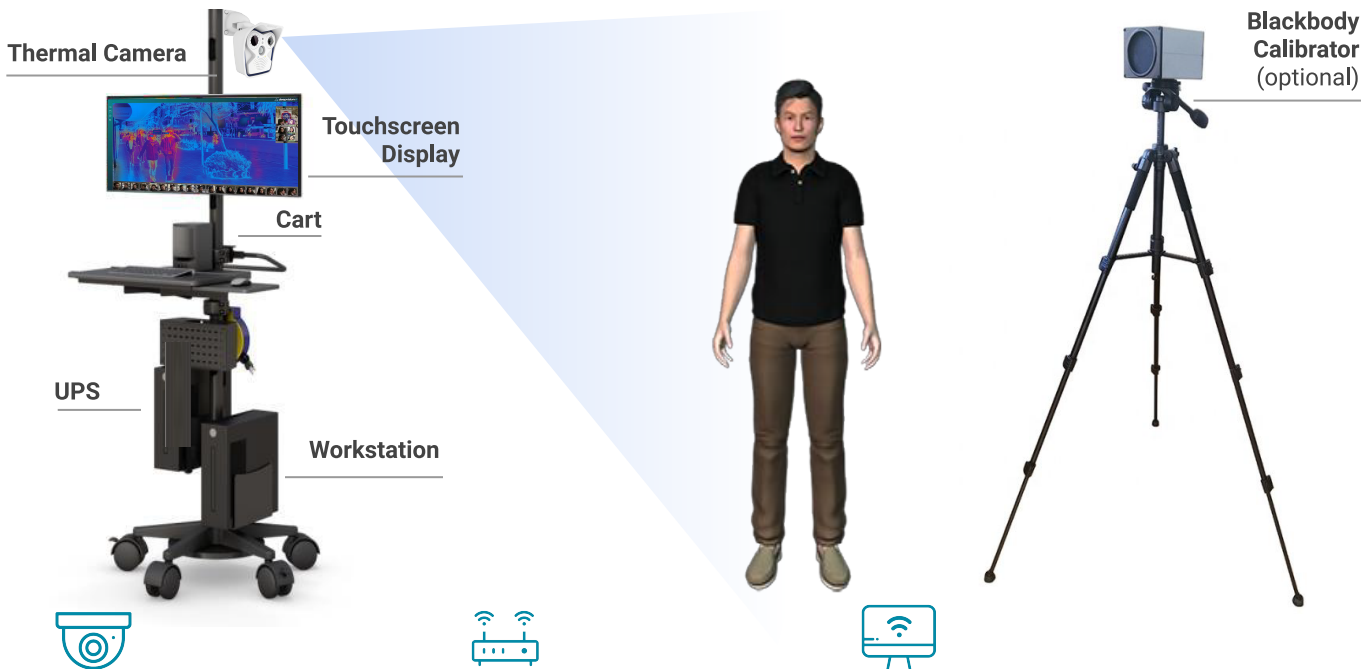
Premier Integrator

ANS Advanced Network Services provides a complete turnkey telecommunications solution including; design, build and managed services to its customers and partners. ANS works with each customer to understand their needs, deploy a system custom tailored to their use, and provides ongoing maintenance and support. With a 28-year history of working with enterprise customers, wireline, and wireless telecommunications companies our reputation stands tall. In addition, ANS offers in-building wireless, tower, DC power and network infrastructure services in the northeast quarter of the US and down the east coast with as-needed support nationwide.

Industry Challenges

- Protecting patients, customers and employees
- Identifying elevated body temperatures in real-time
- Preventing virus spread from unknown carriers
- Implementing autonomous screening system

Solution Outline and Components



HARDWARE

- Thermal Camera
- Universal IoT Gateway (UIG®)
- Small Form Factor Workstation
- Touchscreen Display
- Cart

CONNECTIVITY

- 4G LTE / 5G Cradlepoint Router
- Wireless Service Plan (SIM card)
- Cloud-based Services



SOFTWARE

- Deep Vision AI Temperature Measurement Module
- IntelliSite IoT Platform
- IntelliSite Cloud Engine runs on any cloud or on-premise
- Easy Configuration and Deployment UI
- Alerts and Notification Panel
- Expandable AI-based software features on same platform

Key Benefits

A single source for a designed and tested solution that can be deployed to one or hundreds of your locations. Flexible options to enable continuous monitoring of targeted areas to alert based on defined temperature criteria providing the ability for a quick and appropriate response.

- Proven technology utilized in SARS, H5N1, MERS outbreaks
- Compact mobile solution to meet entry point configuration needs
- Scaled options to support larger deployments in a cost effective manner
- Wireless connectivity for standalone network connection
- Can be installed inside and outside – system adjusts automatically to ambient temperature

Key Solution Features



TURNKEY SOLUTION. Pre-tested and proven solution design. Turn key deployment and installation service.



POWERED WITH AI. Artificial intelligence based human targeting to enhance temperature measurements. Self-calibrated temperature measurement system.



MANAGED SERVICE. Managed service support and monitoring option for management and maintenance.



PERSONALIZED PORTALS. Users can monitor activity and results and set alerts for real-time notification and responsiveness.

Industries benefiting from our technology



Cities & Public Venues



Healthcare



Education



Retail Stores



Hospitality



Gaming



Manufacturing

Solution Specifications

You can choose between the three options below to find the solution that best fits your needs.

Options	Sensitivity	FDA Approved	Thermal Resolution	Dual Lens Resolution	Wifi	Motorized Lens	Field of View	Blackbody required	Distance between people	People per scan
IntelliSite hBM-X	±0.5°C	No	336 X 252	3072 X 2048	No	No	45°	No	15 ft	1 while moving
IntelliSite hBM-F	2% of reading	Yes	320 X 240	1280 x 960	Avail.	Yes	14°, 24°, and 42°	Yes	6 ft	1 while stopped
IntelliSite hBM-O	±0.1°C	No	384 X 288	2688 X 1520	No	No	24.6°	Yes	15ft	3 while moving

Additional AI Software Modules can be enabled

With the proposed hardware infrastructure and Deep Vision AI Software, you can enable other AI-vision models on new camera streams very easily.

- People counting
- Facial Demographics
- Facial Recognition
- Objects entering alert zones
- Vehicle Recognition

POWERED BY:



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