COVID-19 THERMAL SCREENING

By Whiteboard Coordinator

39.2 °C
(102.5 °F)

Febrile 39.2 °C

Benefits

- Screen for fever at scale without physical contact

- Protect frontline staff and non-infected patients

- Efficiently identify and isolate COVID-19 patients
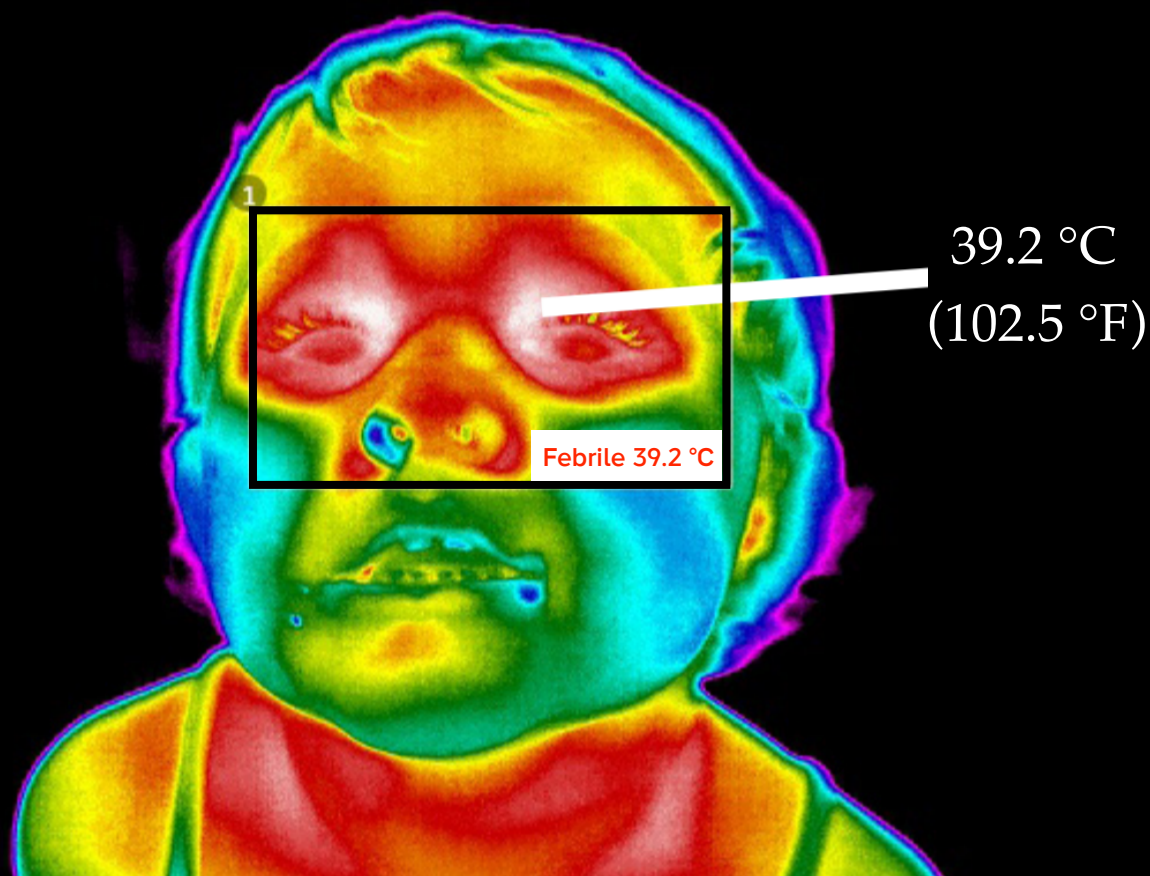
Background:

In the setting of the COVID-19 pandemic, the healthcare system is under tremendous pressure to ensure the safety of patients, frontline staff, and the community at-large. Hospitals that focus on identifying potential COVID-19 patients sooner will provide a safer environment for all by cohorting infected patients and allowing care to start sooner for these patients.

In many countries, current best practice for mass screening is to manually determine the febrile condition associated with COVID-19 using a thermometer. The presence of fever has a high association with COVID-19 and other infectious syndromes needing immediate medical attention. In many cases, this screening procedure requires healthcare workers to come into close proximity with patients in order to measure temperature, placing frontline staff at risk of coronavirus infection. With the COVID-19 pandemic, there is an urgent need to identify febrile patients automatically at scale, and perhaps more critically, to protect caregiving staff from the threat of COVID-19 by maintaining physical distance between themselves and infected patients.

Whiteboard Coordinator, Inc. is a pioneer in the development of computer vision technologies for healthcare that preserve patient and clinician privacy in compliance with the Illinois Biometric Information Privacy Act.

Product Information:

- Whiteboard's thermal cameras are FDA 510(K) cleared to assess temperature.
- Accurate to within +/-0.3 °C.
- Enhanced by machine learning algorithms that detect faces and protect privacy.
- Ability to screen thousands of patients per hour, and provide post-hoc analytical capabilities.
- Comprehensive hospital entrance deployment within hours with adequate technical support.
- FAQ's and pricing on next page.

For more information, reach out to Chris Heddon - VP Business Development at cheddon@wbcoordinator.com

FAQ's

1. *What happens when a febrile person is detected?* An audible sound and visual signal from the monitor are activated. The temperature of the febrile person is displayed above their head.

2. *How many people can the system detect?* Our 640p resolution thermal cameras can detect, and measure temperatures (accuracy $^{+/-}$ 0.3 °C) on, up to 36 individuals per frame of video at 9 meters.

3. *How do you recommend that these cameras are placed?* We recommend that a single camera is placed with a full view of patient and staff entering each entrance of the hospital.

4. *Is this system HIPAA compliant?* Our video feeds have been independently validated to be HIPAA Privacy Rule complaint.

6. *What kind of network access is required?* While our encrypted video feeds can securely operate on a hospital's guest network, we prefer VPN access on the hospital network.

7. *What kind of camera technology do you use?* A dual vanadium oxide (VOx) thermal camera (continuously calibrated with a blackbody device) and 2 megapixel visible light camera.

8. *How are the images displayed?* Images can be displayed either on a standard monitor or through a web-app interface. Streaming format is either H.264 or MJPEG.

9. *What type of support do you provide?* We provide 24/7 support for our products.

Pricing

	DESCRIPTION	FEES
Standard Package Hardware (at cost)	**Includes the following hardware:** • Infrared + visual spectrum IP camera w/12MP infrared resolution. • Black body for reference temperature in camera field of view • Tripod for black body • 16 Channel, 4TB network video recorder	**$8,761 per camera** (due at contract signing)
Services (24 month service contract)	**Includes the following services:** • Fever detection (up to 36 people per frame). • Onsite + web-based video feed access, multi-camera support • Custom privacy enhancement algorithms per customer needs • Analytics Dashboard - #patients screened over time, #patients with fever over time, proportion of patients with fever over time. • 24/7 connection monitoring and troubleshooting.	**$999/month** (1-5 cameras) **$699/month** (5-20 cameras) **$499/month** (50+ cameras)

Thermal Camera Installation Requirements

**Power Requirements:**
1) Camera is powered by a standard outlet (12V+/_ 20% DC) or PoE (802.3af), ePoE.
2)Blackbody is powered by a standard power outlet
3)Network Video Recorder (NVR) is powered by a standard power outlet.

Network Requirements:
- Camera and NVR require 10M/100M ethernet port.
- Whiteboard requires VPN connection for support and updates

Configuration after installation

Black Body

Camera

2-3m

1.8m

2m
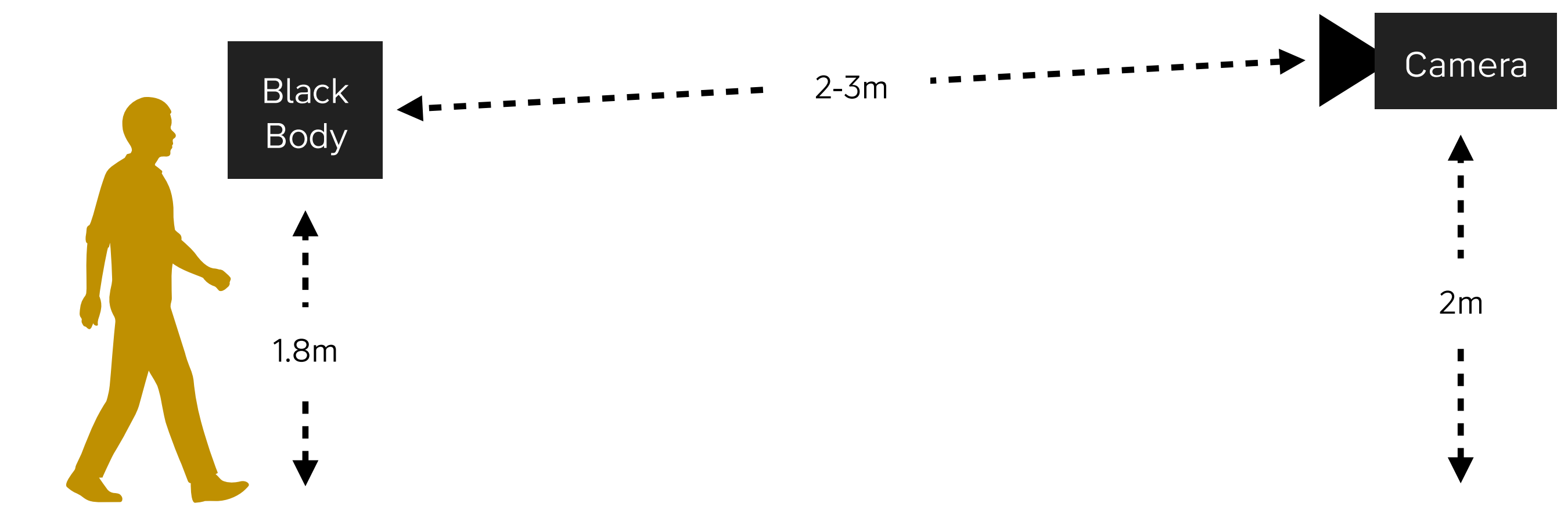
*Camera is wall mounted; black body is tripod mounted.