

## Elevated Body Temperature Detection System



As a means of helping to prevent the spread of Coronavirus (COVID-19), many institutions are implementing thermal imaging cameras as a pre-screening device.<sup>1</sup> This system identifies elevated body temperature (EBT) which could be indicative of a fever (one of the symptoms of a viral infection). While these systems do not replace conventional medical testing, they can be used to give an early indication when used in accordance with FDA guidelines.<sup>2</sup>

### Automated Non-Contact Temperature Screening Kiosk

Viper Imaging is a leading distributor and integrator of FLIR Systems thermal imagers. The Viper V1 features the FLIR A500, which is designed for body temperature screening and provides exceptional image quality and superior measurement accuracy. It is integrated with ViperVision EBT software which will analyze and compare the data against predetermined parameters.

### How it Works

The person to be screened is positioned in front of the kiosk. Correct positioning is easily accomplished as the subject can clearly see their face fill a majority of the predetermined area on the monitor. The main region of interest is on the area of the face nearest the tear ducts (the most representative area for internal body

temperature).<sup>3</sup> Within 1-3 seconds, ViperVision EBT software provides a Pass or Fail response. Both on-screen and audible scan response settings are customizable. Viper system design and recommended operation is based on guidelines and best practices set forth by the FDA, IEC, and IOS. There are several factors to consider in making the most accurate temperature measurement possible. The temperature can be greatly affected by focus, distance to target, resolution of the camera, and the speed of the measurement. As a result, Viper automated systems are designed to account for these factors. Further, the Viper V1 includes a blackbody for reference temperature to ensure the most accurate measurement.<sup>4</sup>

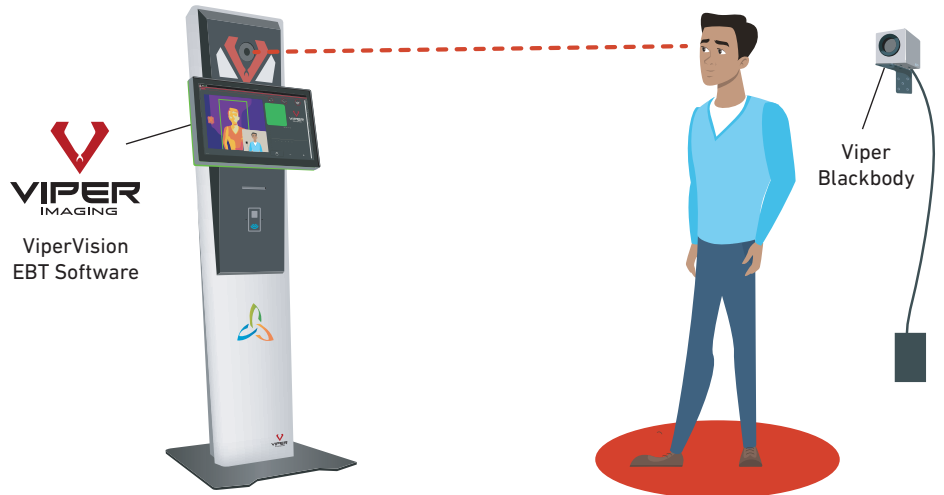


<sup>1</sup> ISO Technical Report 13154; | <sup>2</sup> fda.gov, "Thermal Imaging Systems (Infrared Thermographic Systems / Thermal Imaging Cameras)"; | <sup>3</sup> IEC 80601-2-59; | <sup>4</sup> journals.plos.org, "Best practices for standardized performance testing of infrared thermographs intended for fever screening."

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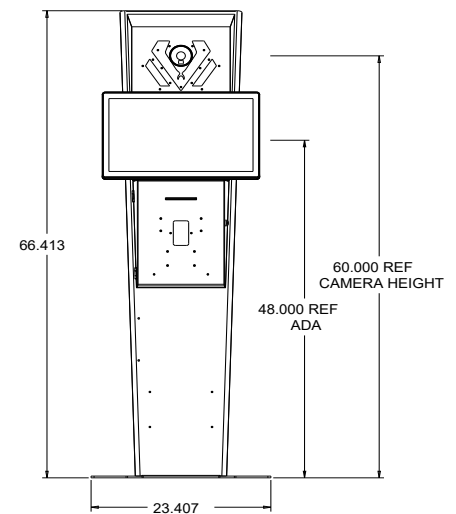
### Automated Temperature Screening with the Viper V1

- Plug-and-play setup
- Quick, non-contact screening process
- Real-time fever symptom identification
- Access control capable
- Alerting capabilities
- FDA 510(k) registered thermal camera
- ADA compliant design



### V1 Quick Specs:

FLIR A500 thermal imaging camera	±0.3°C / ±0.5°F measurement accuracy
Fixed kiosk	66.4" tall / 16 gauge metal body
Integrated PC/Monitor (Keyboard included)	22" LCD Display with touch screen
Blackbody kit	Wall mount included
External light	To enhance facial detection
Integrated speakers	Optional auditory instructions/responses
Integrated RFID badge reader	Optional
Integrated industrial printer	Optional
Customization with your company logo	Optional



### Integrated FLIR A500 thermal imaging camera



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- ✓ exceptional image quality
- ✓ superior measurement accuracy