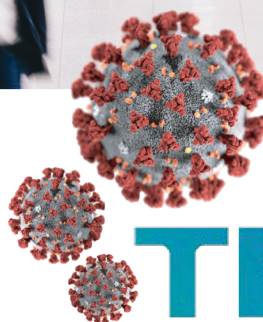
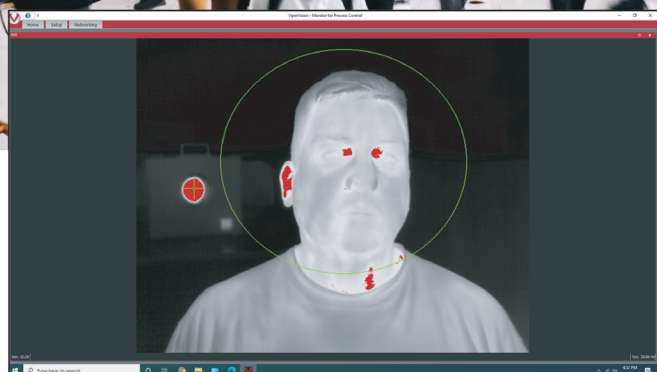


# Viper Elevated Body Temperature (EBT) Detection System



## THERMAL TECHNIQUES

As a means of helping to prevent the spread of the Coronavirus (COVID-19), many institutions have begun to institute thermal imaging cameras as a pre-screening device. This device identifies elevated body temperature (EBT) which could be indicative of a fever (one of the symptoms of a viral infection). While these are not medical devices and do not replace conventional medical testing, they can be used to give an early indication when evaluating a large population.



## Elevated Body Temperature (EBT) detection using FLIR thermal imagers

Viper Imaging is a leading distributor and integrator of FLIR Systems thermal imagers. These range from basic handheld imagers to complete systems featuring automation.

The imagers are focused on the face of the person to be screened with the main region of interest being on the area of the face nearest the tear ducts (the most representative area for internal body temperature). When using a handheld camera, the operator simply points the imager at the person being screened and looks for the highest temperature. The more complete, automated systems involve the person to be screened stepping into an area where the fixed imager is constantly focused and ensuring that their face fills a majority of the predetermined area

on the screen. This system constantly updates and alerts to any temperatures over a preset threshold.

Again, 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 highly recommends to customers the automated systems which remove some of the variables found in the use of handhelds for this application. Further, a calibrated emitter can be used to enhance the temperature reading, thus ensuring a more accurate temperature measurement.\*

\*reference source: journals.plos.org, "Best practices for standardized performance testing of infrared thermographs intended for fever screening"



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# Viper Elevated Body Temperature (EBT) Detection System



## Complete Automated Systems

### Viper EBT Ultra

- FLIR A400/A700/A300 series imager
- Structural kiosk
- PC/Monitor
- I/O module
- Reference emitter
- Visible light camera
- ViperVision Max software\*

### Viper EBT Max

- FLIR A35/A65 imager
- Structural kiosk
- PC/Monitor
- I/O module
- Reference emitter
- Visible light camera
- ViperVision Max software\*

### Viper EBT Standard

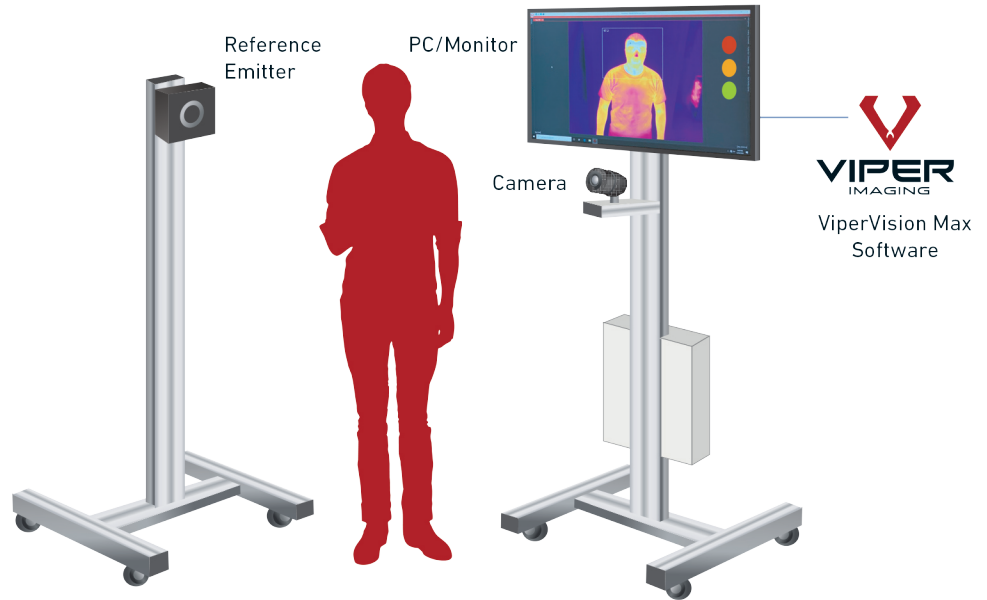
- FLIR imager
- Structural kiosk
- PC/Monitor
- ViperVision Max software\*

**Already have a compatible FLIR A-series, T-series or Exx series camera, but need the other components for a complete system?**

### Viper EBT System (less camera)

- Structural kiosk
- PC/Monitor
- I/O module
- Reference emitter
- Visible light camera
- ViperVision Max software

\* ViperVision software allows you to configure the system to maximize the image, provide on-screen instruction and automated alarming (email, on-screen, and audible).



## Viper EBT Systems - Compatible FLIR Imagers

### FLIR A400/A700 Advanced Smart Sensor thermal camera:

the latest in FLIR technology featuring motorized focus control, superior measurement accuracy, exceptional image quality, and easy configuration.



FLIR A400/A700

### Other FLIR Imagers Compatible with EBT Systems

#### Fixed-mount:

FLIR A35/A65, A300, A310, and A320

#### Handheld:

FLIR E53, E75, E85, E95, T540, T860, T1010, and T1020



FLIR A320



FLIR A35/A65



FLIR E75



FLIR T1020



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