

CLEAR2THERE BODY TEMPERATURE MEASUREMENT SYSTEM



CLEAR2THERE.COM


Clear2there[®]
AN EARTHBEND COMPANY

A VITAL TOOL TO HELP PREVENT THE SPREAD OF INFECTIOUS DISEASE.

CLEAR2THERE DELIVERS AN ACCURATE, FAST AND SAFE LARGE-SCALE ELEVATED TEMPERATURE DETECTION SYSTEM.

According to clinical manifestation statistics, 28 out of 39 statutory infectious diseases display fever symptoms in the early stage. This can include such illnesses as common influenza, severe acute respiratory syndrome (SARS) and COVID-19. The signs and symptoms of COVID-19 exhibited at illness onset vary, but over the course of the disease, the Centers for Disease Control and Prevention (CDC) states that most afflicted persons will present with fever 83 to 99 percent of the time. With that information in mind, it is clear that an efficient and reliable means of fever detection can be a vital tool in the prevention and containment of viral spread.

Traditional hand-held thermometers work well enough for measuring a single individual's temperature across a very small number of people. But, what about when a temperature screening process must be safely implemented in a business environment to address a vastly greater number of people? Manual checks using hand-held thermometers are incredibly time-consuming, can produce inconsistent and inaccurate results, and place screeners at risk of infection due to the close physical proximity required. Additionally, there is no efficient means by which to document and record the temperature readings obtained via this process. The deployment of an automated system to support elevated temperature screening can address many of these issues.



The Clear2there Body Temperature Measurement System is an artificial intelligence-based, contactless temperature monitoring solution that enables automated, safe and reliable detection of elevated body temperatures as part of a preliminary screening process. We combine proven, market-leading AI and thermal technology to deliver a rapidly deployable platform that can help businesses to provide a safe and comfortable environment for employees, customers and visitors.



INTELLIGENT FACE TRACKING

A state-of-the-art face recognition algorithm is used to accurately identify and measure the temperature of a targeted individual.



MULTIPLE SIMULTANEOUS DETECTIONS

Rapidly and reliably complete 16 temperature measurements within 30 milliseconds at a distance range of 10 to 15 feet.



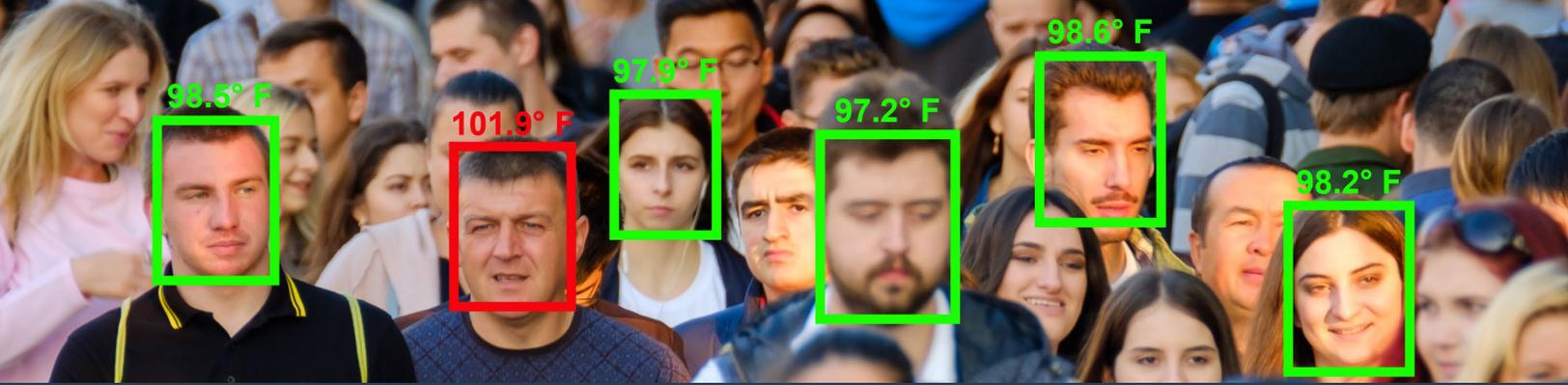
BI-SPECTRUM REAL-TIME MONITORING

Visible light is all that is required to capture the human face, enabling real-time thermal imaging of body temperature under versatile conditions.



ACCURATE TEMPERATURE DETECTION

The system is rated with a temperature detection accuracy level range of within 0.5 degrees Fahrenheit.



YOUR COMPLETE BODY TEMPERATURE SCREENING SOLUTION.

The Clear2there Body Temperature Measurement System is comprised of three core solution components – a dual-channel or bi-spectrum thermal camera, a blackbody thermal calibration device and the Clear2there video management software client. The Clear2there dual-channel camera produces a video stream, with the visible spectrum camera functioning in a similar way to our standard surveillance cameras. The thermal camera provides a visual representation of the infrared energy emitted by individuals and objects, supporting elevated body temperature detection.

The Clear2there blackbody thermal calibration unit maintains a specific temperature and does not reflect any energy from the surrounding environment. It serves as a constant point of reference for the Clear2there thermal camera. It is manually set at a prescribed temperature and the thermal camera is configured based on that designation. A thermal calibration device is typically used when more precise temperature readings are required, as is the case with screening for elevated body temperature.

The Clear2there Body Temperature Measurement System is best leveraged as part of a broader pre-screening operation. As people pass through a defined screening area, their temperatures are read automatically and, depending on the configuration, these readings may be stored and alert notifications generated if a temperature exceeds a specific threshold. Alerts can include audible and visual alarms as well as email and push notifications. Flagged individuals can then be sent to another location for a secondary screening process. This automated approach enables a much larger number of people to be screened, and reduces the possibility of human error as well as virus transmission.

The video and thermal streams as well as temperature readings are captured for each subject. These readings, along with supplemental log data and notes related to specific over temperature measurement events, are stored in a centralized MySQL database. These data sources in turn enable powerful and intuitive search functionality as well as detailed report generation and statistical analysis via the Clear2there video management software client.

As shelter-in-place orders ease across the country, many businesses will look to implement some form of temperature screening to create safe working areas. Environments such as schools, medical waiting rooms, manufacturing facilities and food processing plants, places of worship, elder care facilities and government buildings can all benefit from the deployment of thermal camera technology.





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The Clear2there Body Temperature Measurement System is not a medical device and is not designed for diagnosis, prevention, or treatment of any disease or condition. The solution is a screening tool that can be used to identify individuals with elevated skin temperature compared to a customizable reference temperature.