

AGILE

Promoting the future



HUMAN ELEVATED TEMPERATURE DETECTION SYSTEM

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**Feature Packed
Economical Solution**

HOW THERMAL SCREENING CAN PREVENT THE SPREAD OF COVID19?

Can thermal cameras be used to detect a virus or an infection? The answer is NO.

A thermal imager can only Detects the temperature of a person, It cannot definitely detect a virus or an infection. However prime symptoms of a virus infection is an increase in the human body temperature (Fever). A Thermal Imaging camera is primarily used to mass screen persons entering premises and isolate those with elevated temperature for further screening.

Isolating persons with elevated temperature ensures preventing suspect from entering the premises and thus minimizing risk of virus spreading.

WHY IS THERMAL SCREENING REQUIRED FOR FACTORIES AND OFFICES?

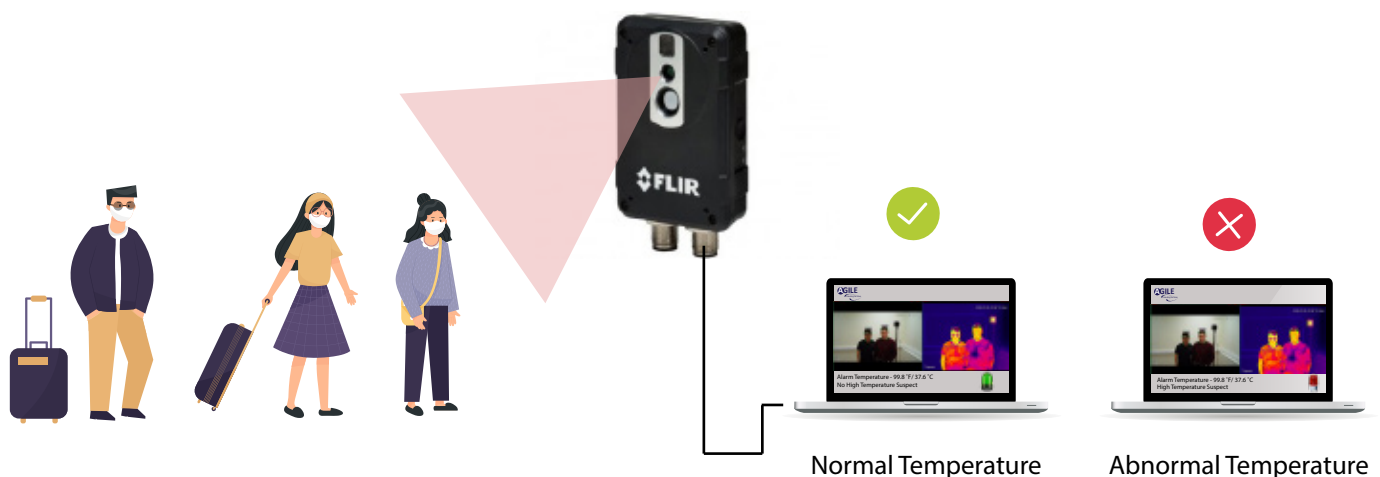
Offices and factories starting operations during pandemic situation of COVID-19 are looking forward to provide a safe working environment to employees. In order to minimize risk of virus spreading, the prime method is Thermal Screening of each entrant. Entrants with abnormally high temperature (COVID Suspects) are than filter out to ensure safe working place for co-workers.

Abnormally high temperature can be at any point on the face and can hardly be detected by single point temperature measurement devices.

HETD designed by AGILE serves the purpose and it's completely automatic with instant alarm facility. HETD detects entrants face and observe abnormal temperature at any point on the face only. This in turn ensures No False alarms and detecting the suspect with 20x more efficiently compared to single point temperature measurement systems.

THERMAL SCANNING TO PREVENT SPREAD OF CORONAVIRUS

- Isolate persons with high temperature for further investigation
- Built in AI software avoids false alarms
- Remote configuration
- No Human Intervention required
- Online support for maximum uptime
- Create a safe workplace



KEY FEATURES

- Multiple Persons Simultaneous Screening
- IP67 rated suitable for outdoor installation
- High Infrared Thermal resolution of 160 x 120 pixels
- Non contact Screening with no human intervention
- Intelligently Engineered software algorithm
- Live image displayed on PC/Laptop
- User defined alarm temp. above 99.0 to 102°F
- Audio Alarm in case of virus high temperature suspect
- E-mail facility (Optional)
- Image saved as a function of alarm
- Face detection ensures only face temp based alarm i.e. no false alarms due to hot spots like Smoke, Tea, Coffee, Hot Food etc.



ALARM SETTING MODES IN HETD

Solution allows user to define alarm temperature using two ways as under

- Users can define alarm temperature from 99.0°F to 101.5°F on the setting console available on the home page.
- Users can enable auto alarm temperature setting. In this mode the system will initially start with a user defined temperature setting say 99.9°F. The system will determine and log maximum face temperature of the first 10 healthy entrants. It then gets an average of 10 entrants having temperature within permissible limits. And will set an alarm temperature by adding 2°F to the average. Means in case average of 10 healthy entrants is 97.5 °F, alarm temperature will be freed to 99.5 °F.



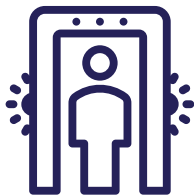
**Visual + Thermal
Image**



**Audio
Alarm**

~~**False
Alarm**~~

**No False
Alarm**



**Screening at
Entry Point**



**Zero Human
Intervention**



**Face
Detection**

Limitations of Thermal Screening Solution available

IR Thermometer

- This is time consuming mode with wide scope of human error.
- It also requires human intervention and encourages virus spread.
- IR Thermometer measures temp. of only 1 point which is hardly the point of interest i.e. Maximum temperature point.

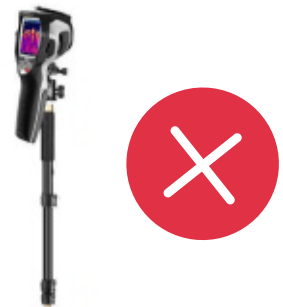


Face Detection with Temp. Screening

- Infrared pointer sensor based solution.
- Measures temperature of only 1 point on face. Temp point depends on height/ position
- Tear Ducts/ Specific forehead point are only required points
- Most likely to take abrupt reading of no use.

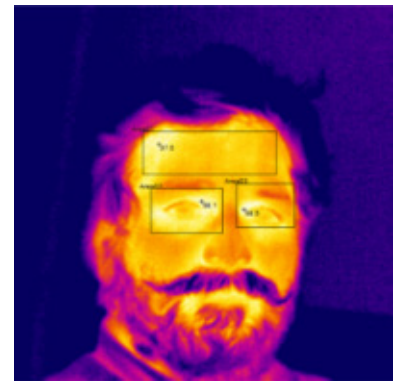
Hand held camera based Tripod mounting solution

- Inbuilt LCD and battery operation.
- Hence not suitable for 24x7 auto operation
- LCD likely to fail in case of continuous operation
- Battery at explosion risk in case of continuous operation



Why Point measurement is inefficient

- Max Temp 97.6°F on left corner of forehead
- Max Temp 98.1°F and 98.5°F respectively at eye lid corners
- Means, measuring temperature at any point on forehead serves no or least purpose



AGILE's expertise in Thermal Automation

AGILE's design team have got more than decade long experience in designing of solutions based on Thermal Imaging Cameras. Prior to HETD, Agile had designed and installed multiple Thermal Automation solutions with market proven track record.

Major solutions based on Thermal Imaging Camera designed and installed by AGILE are:

- Grid Thermal Remote Monitoring
- Coal Pile Thermal Monitoring
- Electronic PCB Thermal Monitoring
- Die Casting Thermal Monitoring
- Rail OHE Auto Hot Spot Monitoring

Clientele of similar solution are Indian Railway, RDSO, Maruti Suzuki, NTPC, PGCIL, Vedanta Group, FLSmith, Nestle and many more