

THERMAL-CHECK from InfraTec

The Thermography System for the Detection of Elevated Body Temperature



Major travel hubs like airports, seaports, railway stations and long-distance bus stations are one of the points on which the security measures of public authorities are aimed when infectious diseases such as Coronavirus (Covid-19), Severe Acute Respiratory Syndrome (SARS), Ebola Virus Disease (EVD) or Middle East Respiratory Syndrome Coronavirus (MERS-CoV) cause global problems. From there, diseases can be effectively prevented from spreading further. InfraTec infrared cameras can be used for a corresponding detection of elevated body temperature for passengers.

Our thermographic systems enable a non-contact and areal coverage of the body temperature, which preferably is detected at the inner corner of the eye. Slightest differences and thus abnormal body temperatures can be displayed and will result in alarms. Performing such health screenings, e.g. via implementing temperature checkpoints, enable the acquisition of important information as a basis for decision-making for subsequent medical examinations of the selected people and thus serve to secure public areas.

Advantages of using infrared cameras for thermal fever screening of passenger

- Contactless and planar temperature measurement without external reference radiator
- Large field of view for rapid checking of multiple people
- Resolution also of smaller areas of the skin (corner of the eye) from a safe distance
- Automatic facial recognition selectable
- Screening of several people at the same time, high variability in the size of people (e.g. children)
- Display and evaluation in real time
- Reliable temperature measurements based on low noise infrared detectors and precision calibration
- Alarming at surpassing temperature thresholds



The screening will start automatically. As soon as the person's face is in the marked area (inner green frame), the measurement is performed.



Should the previously defined temperature threshold be exceeded, an alarm is triggered via the software (here: simulated test alarm)

