Polytec

TI FeverScan
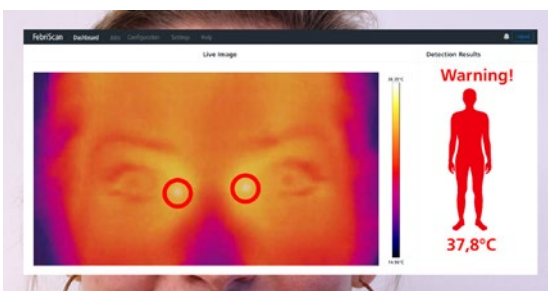## Thermal imaging for body temperature detection

TI FeverScan

TI FeverScan is an innovative solution to detect an elevated body temperature as a result of illness or infection. It is based on a high-precision temperature image analysis. The access monitoring system with contactless temperature measurement can be quickly installed for use either temporarily in public places or as a stationary fixture in an entrance area.

TI FeverScan has three components: an intelligent infrared camera, a temperature reference body and a specially developed app, which together enable a person's body temperature to be recorded with great accuracy. To guarantee the reliability of the temperature display, the TI FeverScan has numerous integrated fully automatic self-test functions. Further advantages include simple installation, fast measurement process, mobile use. The result is shown graphically on the screen as a red and green display. Red stands for elevated temperature or fever; green indicates a normal measurement.

!

How the test works:

Detection using the TI FeverScan **complies with the IEC 80601-2-59:2017 standard,** where the infrared camera captures a person's face.
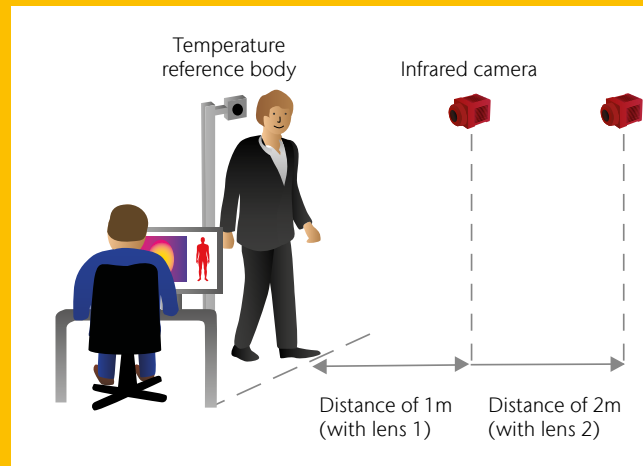
The special advantage:
The temperature is measured at the most heat-intensive point on the face – namely the inner corners of the eyelids – which shows the actual body temperature. In combination with the high-precision temperature reference, our app then verifies the detection result. Only in this way is a precise statement on body temperature at all possible.

Important: Glasses may not be worn during the measurement so that the camera can capture the relevant area.

Two versions for different installation conditions:

The configuration of the TI FeverScan depends on the distance between face and infrared camera, which can be individually adjusted depending on the installation situation. The camera lens is selected depending on the distance specification, while the monitor and the temperature reference body are constant elements.

Temperature reference body   Infrared camera

Distance of 1m (with lens 1)   Distance of 2m (with lens 2)

Maximum safety
High-precision detection of elevated body temperatures in accordance with the IEC 80601-2-59:2017 standard. Automatic comparison with temperature reference.
Detection of body temperature at the inner corners of the eyelids ensures that the measurement result is correct. In contrast, the body temperature is underestimated if the area of the face is measured.
Integrated fully automatic self-test functions for highest reliability of the temperature measurement

High flexibility and efficiency
Fast measuring process and evaluation (< 1 second)
2 variants for different distances between camera and face, e.g. due to the local installation conditions
Can be used in any setting: e.g. companies, authorities, railway stations, airports ...
Designed for 24/7 continuous operation
Very simple installation

Intuitive graphic display
Temperature image of the face
Body temperature, measured at the inner corners of the eyelids (canthi)
Automatic evaluation: red = suspicious body temperature; green = unsuspicious

Stationary installation (all-in-one solution for permanent installation at one location)	Mobile installation (flexible set-up with tripods for temporary screenings)
Intelligent camera IRSX-I 640S with a resolution of 640x512), FeverScan app, M12 power cable 2 m with power supply (pigtail power cable) and M12-RJ45 5 m Ethernet cable	Intelligent camera IRSX-I 640S (configuration 1 or 2; further configurations available on request), FeverScan App, M12 power cable 0.5 m, power supply (pigtail power cable) and M12-RJ45 0.5 m Ethernet cable
IP blackbody 70 with power cable and power supply	IP blackbody 70 with power cable and power supply
Stationary installation with camera holder and temperature reference emitter including mounting bracket, operator monitor based on a WEB HMI. Further options on request	2x tripod with power supply holder and bag for blackbody (1.9 m high) and camera (1.6 m high)
Sticker/sign set 1x "no glasses", 1x "keep distance", 5x floor sticker "footsteps"	Sticker/sign set 1x "no glasses", 1x "keep distance", 5x floor sticker "footsteps "
The stationary installation package requires a power supply of 230 V AC or 110 V AC	Transport case for camera and IP blackbody
	Optional: operator monitor with VESA mount (suitable for table-top installation), power supply, keyboard and mouse
	User display (WLAN coupled) for mounting on camera tripod with power supply and embedded visualisation PC with integrated WLAN access point
	The mobile installation package requires the following: 3x (4x with operator monitor) 110 V / 230 V power supply, 1x table for operator monitor

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Find your Polytec representative:
www.polytec.com/contact

Polytec GmbH · Germany
Polytec-Platz 1-7 · 76337 Waldbronn

Please contact:
Tel. +49 7243 604-4540
wl@polytec.de
www.polytec.com/feverscan

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