Data sheet
testo 890
FeverDetection kit

Be sure. testo

Thermal imager

testo 890 FeverDetection kit

- testo FeverDetection function for identifying increased surface temperatures on faces
- Infrared resolution 640 x 480 pixels
- Very good thermal sensitivity of < 40 mK (< 0.04 °C)
- Optical and audible alarms
- HDMI interface for transmission to an external monitor

With the thermal imager testo 890, body surface temperatures of individual persons can be measured quickly and reliably at heavily frequented facilities such as airports, railway stations or shopping centres.
The testo FeverDetection function in the thermal imager testo 890 can identify the relative body surface temperature of persons, or more accurately the temperature difference between “healthy” people (with a normal body temperature) and “potentially ill” people (with increased body temperature).

The surface temperature of the face is automatically recorded at the warmest spot in the face (usually the inner corner of the eye), and an alarm is triggered if it exceeds a certain threshold value. This allows those with an elevated body surface temperature to be identified quickly and reliably, and to be isolated for a precise medical examination.

Order data / Technical data

testo 890 FeverDetection kit

testo 890 thermal imager with testo FeverDetection function in a robust case, including professional software (free download), SD card, USB cable, carrying strap, lens-cleaning cloth, mains unit, Li-ion rechargeable battery and headset

Order no. 0563 0890 X7

Infrared image output	
Infrared resolution	640 x 480 pixels
Thermal sensitivity (NETD)	< 40 mK at +30 °C
Field of view / min. focusing distance	42° x 32° / 0.1 m
Geometric resolution (IFOV)	1.13 mrad
Image refresh rate	33 Hz*
Focus	Automatic/manual
Spectral range	7.5 to 14 µm
Visual image output	
Image size / min. focusing distance	3.1 MP / 0.5 m
Image presentation	
Image display	4.3" LCD touchscreen with 480 x 272 pixels
Digital zoom	1 to 3 x
Display options	IR image / real image
Video output	USB 2.0, Micro HDMI
Colour palettes	9 (iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo)
Measurement	
Measuring range	-30 to +100 °C / 0 to +350 °C (switchable)
Accuracy	±2 °C, ±2 % of reading (higher value applies) (±3°C of m.v. at -30 to -22°C)
Emissivity/reflected temperature settings	0.01 to 1 / manual
Transmission correction (atmosphere)	✔

* Inside the EU, outside 9 Hz
** Excepting USA, China and Japan
*** Bluetooth only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Japan, Russia, Ukraine, India, Australia

Imager equipment	
Digital camera	✔
Lens	42° x 32°
Laser (laser classification 635 nm, Class 2)**	Laser marker (not available when FeverDetection is activated)
Voice recording	Bluetooth*** / wired headset
testo FeverDetection	✔
Image storage	
File format individual image	.bmt; export options in .bmp, .jpg, .png, .csv, .xls
Removable storage device	SD card 2 GB (approx. 1,500 to 2,000 images)
Power supply	
Battery type	Fast-charging, Li-ion battery can be changed on-site
Operating time	4.5 hours
Charging options	In instrument/in charging station (optional)
Mains operation	✔
Ambient conditions	
Operating temperature range	-15 to +50 °C
Storage temperature range	-30 to +60 °C
Air humidity	20 to 80% RH, non-condensing
Housing protection class (IEC 60529)	IP54
Vibration (IEC 60068-2-6)	2G
Physical features	
Weight	1630 g
Dimensions (L x W x H)	253 x 132 x 111 mm
Tripod mounting	1/4" - 20 UNC
Housing	ABS
PC software	
System requirements	Windows 10, Windows Vista, Windows 7 (Service Pack 1), Windows 8, USB 2.0 interface
Standards, tests	
EU Directive	2004 / 108 / EC

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