

TECHNICAL DETAILS – testo 890

Infrared Image Output	
Focus	Auto/manual
Infrared resolution	640 x 480 pixels
Image refresh rate	33 Hz
SuperResolution (IFOV)	0.71 mrad (Standard lens), 0.43 mrad (25° lens), 0.26 mrad (Telephoto lens), 0.11 mrad (Supertele)
SuperResolution (Pixel)	1280 x 960 pixels
Geometric resolution (IFOV)	1.13 mrad (Standard lens), 0.68 mrad (25° lens), 0.42 (Telephoto lens), 0.18 (Supertele)
Minimum focus distance	0.1 m (Standard lens), 0.2 m (25° lens), 0.5 m (Telephoto lens), 2 m (Supertele)
Field of view	42° x 32° (Standard lens), 25° x 19° (25° lens), 15° x 11° (Telephoto lens), 6.6° x 5° (Supertele)
Thermal sensitivity	< 40 mK at +30 °C
Spectral range	7.5 to 14 µm
*inside the EU, outside 9 Hz	
Image output visual	
Minimum focus distance	0.5 m
Image size	3.1 MP
Image presentation	
Display option	IR image / real image
Colours	9 (iron, rainbow, rainbow HC, cold-hot, blue-red, grey,

	inverted grey, sepia, Testo)
Display type	4.3" LCD touchscreen with 480 x 272 pixels
Digital zoom	1-; 3-fold
Video output	USB 2.0, Micro HDMI
Measurement	
Reflected temperature	manual
Transmission correction	Included
Measuring range	-30 to +100°C; 0 to +350 °C (switchable); 0 to +650 °C (switchable)
High temperature measuring	+350 ... +1200 °C (not in connection with the telephoto lens)
Accuracy	±2 °C, ±2 % of m.v.
Emissivity	0.01; 1
Accuracy high temperature	±2 °C, ±2 % of m.v.
Measuring function	
Surface moisture distribution	Included
Humidity measurement	Optional
Solar mode – manual	Included
Analysis function	up to 10 measurement points, Hot/Cold Spot Recognition, up to 5 x area measurement (min/max & average), Isotherm and alarm values

Humidity measurement with humidity measuring instrument	with radio humidity probe; (automatic measurement value transfer in real time); *Wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia
Imager equipment	
Digital camera	Included
Process analysis package	Optional
JPEG storage	included
Video streaming	via HDMI
Video measurement	up to 3 measurement points
Voice recording	Bluetooth****/wired headset
Laser	Laser marker
Panorama image assistant	Included
Power-LED	Included
Standard lens	42° x 32°
Exchangeable lenses	25° x 19°; 15° x 11°; 6.6° x 5°
SiteRecognition	Included
Interface	Labview; free download from homepage; USB
Fever detection	Optional
**** Bluetooth only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Japan, Russia, Ukraine, India, Australia	
Imager Storage	
File format image	.bmt; export option in .bmp; .jpg; .png; .csv; .xls

File format video	.wmv; .mpeg-1; Testo format (fully radiometric video)
Storage device	SD card 2GB (approx. 1500 - 2000 images)
Power supply	
Battery type	Fast-charging, Li-ion battery can be changed on-site
Operating time	4.5 h
Charging options	In instrument / charger (optional)
Mains operation	yes
Ambient Condition	
Housing protection class	IP54
Vibration	2G
Air humidity	20 to 80 % RH non-condensing
Storage temperature	-30 to +60 °C
Operating temperature	-15 to +50 °C
Power supply	
Tripod mounting	1/4" - 20UNC
Product-/housing material	ABS
weight (without package)	1,630 g
Weight	1630 g
Dimensions	253 x 132 x 111 mm
PC Software	
System requirements	Windows 10; Windows Vista; Windows 7 (Service Pack 1);

	Windows 8; Interface: USB 2.0
Standard ,tests, warrenty	
Operating temperature	2004/108/EG