

Technical data testo 890

	testo 890-1	testo 890-2
Infrared image output		
Detector type	FPA 640 x 480 pixels, a.Si	
Thermal sensitivity (NETD)	< 40 mK bei 30°C	
Field of view/min. focus distance	42° x 32° / 0.1 m (standard lens) 15° x 11° / 0.5 m (telephoto lens)	
Geometric resolution (IFOV)	1,15 mrad (standard lens), 0,42 mrad (telephoto lens)	
SuperResolution (pixel / IFOV) - optional	1,280 x 960 pixels / 0,72 mrad (standard lens), 0,26 mrad (telephoto lens)	
Image refresh rate	33 Hz*	
Focus	manual / auto	
Spectral range	8 to 14 µm	
Image output visual		
Image size / min. focus 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 fold	
Display options	IR / real image	
Video output	USB 2.0	
Colour palettes	8 (iron, rainbow, cold-hot, blue-red, grey, inverted grey, sepia, Testo)	
Measurement		
Temperature range	-20°C to 100°C / 0 °to 350°C (switchable)	
High temperature measurement - optional	-	+350°C to +1.200°C
Accuracy	±2°C, ±2% of m.v.	
Emissivity / reflected temperature	0.01 to 1 / manual	
Transmission correction (atmosphere)	✓	
Measuring functions		
Display of surface moisture (via manual input)	-	✓
Humidity measurement with wireless humidity probe** (automatic measurement value transfer in real time)	-	(✓)
Analysis functions	up to 3 measurement points, Hot/Cold Spot Recognition, Area measurement (Min/Max & average), Isotherm and alarm values	
Solar mode	✓	
Imager equipment		
Digital camera with power LEDs	✓	
Standard lens	42° x 32°	
Exchangeable lens - optional	-	15° x 11°
SiteRecognition (measurement site recognition with image management)	-	✓
Panorama image assistant	✓	
Laser*** (laser classification 635 nm, Class 2)	Laser marker	
Voice recording	-	Bluetooth**** / wired headset
Video measurement (via USB)	up to 3 measurement points	up to 3 measurement points
Fully radiometric video measurement incl. logger function (via USB)	-	(✓)
Image storage		
File format single image	.bmt; export options in .bmp, .jpg, .png, .csv, .xls	
File format video (via USB)	.wmv, .mpeg-1	.wmv, .mpeg-1 / Testo format (fully radiometric video)
Storage device	SD card 2 GB (800-1,000 images)	
Power supply		
Battery type	Fast-charging, Li-ion battery can be changed on-site	
Operating time	4.5 hours	
Charging options	in instrument or optionally in charger	
Mains operation	Yes	
Ambient conditions		
Operating temperature range	-15°C to 50°C	
Storage temperature range	-30°C to 60°C	
Air humidity	20% to 80% non-condensing	
Housing protection class (IEC 60529)	IP 54	
Vibration (IEC 60068-2-6)	2G	
Physical specifications		
Weight	1.630g	
Dimensions (L x W x H) in mm	253 x 132 x 111	
Tripod mounting	1/4" - 20UNC	
Housing	ABS	
PC software		
System requirements	Windows XP (Service Pack 3), Windows Vista, Windows 7, Interface USB 2.0	
Standards, tests, warranty		
EU Directive	2004 / 108 / EC	
Warranty	2 years	

✓ Standard (✓) optional - not available

* Inside the EU, outside 9 Hz

** Wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia

*** Excepting USA, Japan and China

**** Bluetooth only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Japan, Russia, Ukraine, India, Australia