

Technical data of the thermal imager **testo 876**

Product data	testo 876
Image output	
Infrared	
Detector type	FPA 160 x 120 pixels, a.Si
Thermal sensitivity (NETD)	< 80 mK at 30 °C
Field of view / min. focusing distance	32° x 23° / 0.1 m (standard lens) 9° x 7° / 0.5 m (telephoto lens)
Geometric resolution (IFOV)	3.3 mrad (standard lens), 1.0 mrad (telephoto lens)
Image refresh rate	9 Hz
Focus	manual and motor focus
Spectral range	8 to 14 µm
Visual	
Image size / min. focusing distance	640 x 480 pixels / 0.4 m
Image presentation	
Image display	3.5" Fold-out LCD with 320 x 240 pixels
Display options	IR image only / real image only/ IR and real image
Video output	USB 2.0
Colour palettes	4 options: iron, rainbow, blue-red, shades of grey
Measurement	
Temperature range	-20 °C to 100 °C / 0 ° to +280 °C (switchable)
Accuracy	±2 °C, ±2% of m. v.. (-20 °C to +280 °C)
Emissivity / reflected temperature compensation	0.01 to 1 / manual
Imager equipment	
Digital camera	✓
Motor focus	✓
Standard lens (32° x 23°)	✓
Telephoto lens (9° x 7°)	optional
Voice recording	✓
Display of surface moisture distribution	yes using manual input
Measuring functions	
Measurement	standard measurement (1-point)
Hot/Cold Spot Recognition	✓
Isotherms	✓
Min-/Max on Area	✓
Image storage	
File format	.bmt; export options in .bmp, .jpg, .png, .csv, .xls
Storage device	SD card 2 GB (approx. 1,000 images)
Power supply	
Battery type	fast-charging, Li-ion battery can be changed on-site
Operating time	approx. 4 hours
Charging options	in instrument or optionally in charger, with car charging adapter
Mains operation	yes
Ambient conditions	
Operating temperature range	-15 °C to 40 °C
Storage temperature range	-30 °C to 60 °C
Air humidity	20% to 80% non-condensing
Housing protection class	IP 54
Vibration (IEC 68-2-6)	2G
Physical features	
Weight	approx. 900 g
Dimensions (L x W x H) in mm	approx. 210 x 85 x 97
Tripod mounting	yes
Housing	ABS
PC software	
System requirements	Windows XP (Service Pack 2), Windows Vista, Windows 7, interface USB 2.0
Standards, tests, warranty	
EU Directive	2004 / 108 / EC
Warranty	2 years

Technical data of the thermal imager **testo 882**

Product data	testo 882
Image output	
Infrared	
Detector type	FPA 320 x 240 pixels, a.Si
Thermal sensitivity (NETD)	< 60 mK at 30 °C
Field of view / min. focusing distance	32° x 23° / 0.2 m
	1.7 mrad
Geometric resolution (IFOV)	33 Hz for EU, otherwise 9 Hz
Image refresh rate	manual and motor focus
Spectral range	8 to 14 µm
Visual	
Image size / min. focusing distance	640 x 480 pixels / 0.4 m
Image presentation	
Image display	3.5" LCD with 320 x 240 pixels
Display options	IR image only / real image only/ IR and real image
Video output	USB 2.0
Colour palettes	9 options: iron, rainbow, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT
Measurement	
Temperature range	-20 °C to 100 °C / 0 ° to +350 °C (switchable)
High temperature measurement (optional)	+350 °C to +550 °C
Accuracy	±2 °C, ±2% of m.v. (-20 °C to +350 °C) / ±3% of m.v. (+350 °C to +550 °C)
Emissivity / reflected temperature compensation	0.01 to 1 / manual
Imager equipment	
Digital camera	✓
Power LEDs	✓
Motor focus	✓
Standard lens(32°x23°)	✓
Laser measuring spot marking	✓ (laser classification 635 nm, Class 2)
Voice recording	✓
Display of surface moisture distribution	yes using manual input
Measuring functions	
Measurement	standard measurement (1-point) / two-point measurement
Hot/Cold Spot Recognition	✓
Isotherms	✓
Min-/Max on Area	✓
Image storage	
File format	.bmt; export options in .bmp, .jpg, .png, .csv, .xls
Storage device	SD card 2 GB (approx. 1,000 images)
Power supply	
Battery type	fast-charging, Li-ion battery can be changed on-site
Operating time	approx. 4 hours
Charging options	in instrument or optionally in charger, with car charging adapter
Mains operation	yes
Ambient conditions	
Operating temperature range	-15 °C to 40 °C
Storage temperature range	-30 °C to 60 °C
Air humidity	20% to 80% non-condensing
Housing protection class	IP 54
Vibration (IEC 68-2-6)	2G
Physical features	
Weight	approx. 900 g
Dimensions (L x W x H) in mm	152 x 108 x 262
Tripod mounting	yes, with adapter
Housing	ABS
PC software	
System requirements	Windows XP (Service Pack 2), Windows Vista, Windows 7, interface USB 2.0
Standards, tests, warranty	
EU Directive	2004 / 108 / EC
Warranty	2 years