The reliable thermal imager with high image resolution

testo 882

The advantages of testo 882

Detector size 320 x 240 pixels

With 76.800 temperature measurement points, the measurement objects are detected in excellent image quality, very clearly and precisely.

SuperResolution technology (to 640 x 480 pixels)

SuperResolution technology improves the image quality by one class, i.e. the resolution of the thermal images is four times higher.
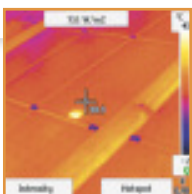
Thermal sensitivity < 60 mK

Thanks to an excellent temperature resolution of < 60 mK, even the smallest temperature differences are visible.
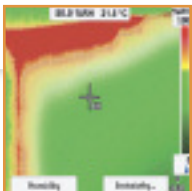
Large field of view thanks to 32° lens

With the 32° standard lens, large image sections are immediately recognized, and the temperature distribution of the measurement object recorded at a glance.
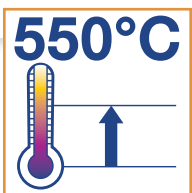
Solar mode

For each measurement, the sun irradiation value can be entered into the camera. This value is stored for each thermal image.

Special measurement mode for detecting areas with danger of mould

Using the externally measured ambient temperature and air humidity, as well as the surface temperature, the humidity value of each measurement point is calculated and shown in the display as a real humidity image.

High temperature up to 550 °C

With the high temperature option, the measuring range can be flexibly extended up to 550 °C.

Built-in digital camera
with power LEDs

Function
of the PC software:
Image overlay TwinPix

Technical data testo 882

Voice recording using headset

Intuitive operation

Infrared image output	
Detector type	FPA 320 x 240 pixels, a.Si
Thermal sensitivity (NETD)	< 60 mK bei 30 °C
Field of view/min. focus distance	32° x 23° / 0,2 m
Geometric resolution (IFOV)	1,7 mrad
SuperResolution (pixel / IFOV) - optional	640 x 480 pixels / 1,1 mrad
Image refresh rate	33 Hz*
Focus	manual and motor focus
Spectral range	8 to 14 µm
Image output visual	
Image size / min. focus 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 (iron, rainbow, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT)
Measurement	
Temperature range	-20 °C to +100 °C / 0 °C to +350 °C (switchable)
High temperature measurement - optional	+350 °C to +550 °C
Accuracy	±2 °C, ±2% of m.v. ±3% of m. v. (+350 °C to +550 °C)
Emissivity / reflected temperature	0.01 to 1 / manual
Measuring functions	
Display of surface moisture distribution (using manual input)	✓
Humidity measurement with radio humidity probe** (automatic measurement value transfer in real time)	(✓)
Solar mode	✓
Analysis function	Up to 2 measurement points, Hot/Cold Spot Recognition, Isotherms, Min-/Max on Area
Imager equipment	
Digital camera	✓
Power LEDs	✓
Motor focus	✓
Standard lens	32° x 23°
Laser*** (laser classification 635 nm, Class 2)	✓
Voice recording	wired headset
Video streaming (via USB)	✓
Image storage	
File format	.bmt; export options in .bmp, .jpg, .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	4 hours
Charging options	In instrument/in charging station (optional)
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 (IEC 60529)	IP 54
Vibration (IEC 60068-2-6)	2G
Physical specifications	
Weight	approx. 900 g
Dimensions (L x W x H) in mm	152 x 108 x 262
Tripod mounting	M6
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

* 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

Overview

Features	testo 882
Detector	320 x 240 pixels
Thermal sensitivity (NETD)	< 60 mK
Temperature range	-20 to +350 °C
Image refresh rate	33 Hz*
Lens 32° x 23°	✓
SuperResolution	(✓)
High temperature measurement up to 550 °C	(✓)
Integrated digital camera	✓
Integrated power LEDs	✓
Voice recording using the headset	✓
Laser**	✓
Motor focus	✓
Display of surface moisture distribution (by manual input)	✓
Humidity measurement with wireless humidity probe*** (automatic measurement value transfer in real time)	(✓)
Isotherm display in instrument	✓
Min/Max on Area calculation	✓
Auto Hot/Cold Spot Recognition	✓
Solar mode	✓
Germanium lens protection glass	(✓)
Additional battery	(✓)
Fast battery charger	(✓)

✓ included in delivery   (✓) optional

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Ordering data

Thermal imager testo 882

	Order no.	
Thermal imager testo 882 in a robust case incl. pro software, Soft Case, carrying strap, SD card, USB cable, mains unit, Li ion rechargeable battery, tripod adapter, lens cleaning cloth, headset	0560 0882	

Accessories	Code[1] (Initial equipment)	Order no. (Retrofit)	
SuperResolution. Four times more measurement values for even more detailed analysis of the thermal images.	S1	0554 7806	
Lens protection glass. Special Germanium protective glass for optimum protection of the lens from dust and scratching	C1	0554 8805	
Additional battery. Additional Lithium ion rech. battery for extending the operating time	D1	0554 8802	
Fast battery charger. Desktop charging station for two rechargeable batteries for the optimization of the charging time.	E1	0554 8801	
High temperature measurement up to 550 °C	G1	[2]	
Humidity measurement with wireless humidity probe*	B1	[2] [3]	
Aluminium tripod. Professional, extremely light and stable aluminium tripod with Quick-Release legs and 3-way tripod head.		0554 8804	
Emissivity adhesive tape. Adhesive tape, e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), e=0.95, temperature-resistant to +250 °C		0554 0051	
ISO calibration certificates Calibration points at 0 °C, +25 °C, +50 °C Calibration points at 0 °C, +100 °C, +200 °C Freely selectable calibration points in the range -18 °C to +250 °C		0520 0489 0520 0490 0520 0495	

[1] When ordering as initial equipment, you receive the accessories directly in the case. Example: testo 882 incl. lens protection glass and spare battery: Order no. 0560 0882 C1 D1

[2] Please contact our customer service

[3] Plus installation