

We measure it.



# Thermal imager

**testo 882 – reliable thermography with high image resolution**

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Detector size 320 x 240 pixels

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SuperResolution technology to 640 x 480 pixels

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Thermal sensitivity < 50 mK

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Built-in digital camera with power LED's

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Special measurement mode for mould risk areas

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High temperature measurement up to 550 °C

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With the thermal imager testo 882, you test materials and components reliably and securely. The testo 882 – in ergonomic pistol design – stands out thanks to very high-resolution thermal images and a high thermal sensitivity. This allows you to identify every detail on the measurement

object completely non-intrusively, and detect anomalies and weak spots more easily even at a great distance. For you, that means: You see more and have more security when thermographing!

## 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.



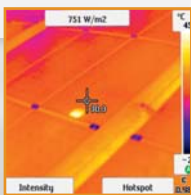
### Thermal sensitivity < 50 mK

Thanks to an excellent temperature resolution of < 50 mK, even the smallest temperature differences are visible.



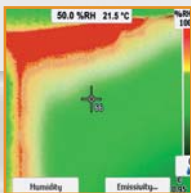
### Large field of view thanks to 32° lens

With the lightweight 32° wide-angle lens, large image sections are immediately recognized, and the temperature distribution of the measurement object recorded at a glance.



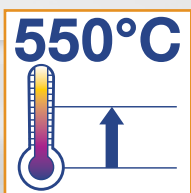
### Solar mode

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 areal 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



<b>Infrared image output</b>	
Detector type	FPA 320 x 240 pixels, a.Si
Thermal sensitivity (NETD)	< 50 mK at 30 °C
Field of vision/min. focusing 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
<b>Image output visual</b>	
Image size / min. focusing distance	640 x 480 pixels / 0.4 m
<b>Image presentation</b>	
Image display	3.5" LCD with 320 x 240 pixels
Display options	IR image only / real image only / IR and real image
<b>Video output</b>	
Colour palettes	10 (iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT)
<b>Measurement</b>	
Temperature range	-20 to +100 °C/0 to +350 °C (switchable)
High temperature measurement - optional	+350 to +550 °C
Accuracy	±2 °C, ±2% of m.v. ±3% of reading (+350 to +550 °C)
Emissivity / reflected temperature	0.01 to 1 / manual
<b>Measuring functions</b>	
Display of surface moisture (via manual input)	✓
Humidity measurement with wireless humidity probe** (automatic measurement value transfer in real time)	✓
Solar mode	✓
Analysis function	Up to 2 measurement points, hot/cold Spot recognition, isotherm, area measurement (Min-/Max-On-Area)
<b>Imager equipment</b>	
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)	✓
<b>Image storage</b>	
File format	.bmt; export options in .bmp, .jpg, .png, .csv, .xls*
Storage device	SD card 2 GB (approx. 1,000 images)
<b>Power supply</b>	
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
<b>Ambient conditions</b>	
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
<b>Physical specifications</b>	
Weight	approx. 900 g
Dimensions (L x W x H) in mm	152 x 108 x 262
Tripod mounting	M6
Housing	ABS
<b>PC software</b>	
System requirements	Windows XP (Service Pack 3), Windows 7 (Service Pack 1), Windows Vista, interface USB 2.0
<b>Standards, tests, warranty</b>	
EU Directive	2004 / 108 / EG
Warranty	2 years

✓ Standard  
 (✓) optional

\* Within the EU and for countries without export restrictions, otherwise 9 Hz

\*\* Wireless humidity probes only in the EU, Norway, Switzerland, Croatia, 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)	< 50 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 (via 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

\* Within the EU and for countries without export restrictions, otherwise 9 Hz  
 \*\* excepting USA, China and Japan

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## Ordering data

### Thermal imager testo 882

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



Order no.  
0560 0882

### Accessories

	Code <sup>1)</sup> (First equipment)	Order no. (Retrofit)
<b>SuperResolution.</b> Four times more measurement values for even more detailed analysis of the thermal images.	S1	0554 7806
<b>Lens protection glass.</b> Special Germanium protective glass for optimum protection of the lens from dust and scratching	C1	0554 8805
<b>Additional battery.</b> Lithium ion rechargeable battery for extending operating time	D1	0554 8802
<b>Fast battery charger.</b> Desktop charging station for two rechargeable batteries for the optimization of the charging time.	E1	0554 8801
<b>High temperature measurement up to 550 °C</b>	G1	<sup>2)</sup>
<b>Humidity measurement with wireless humidity probe***</b>	B1	<sup>2) 3)</sup>
<b>Emissivity adhesive tape.</b> Adhesive tape, e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), e=0.95, temperature-resistant to +250 °C		0554 0051
<b>ISO calibration certificates</b> 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

<sup>1)</sup> 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

<sup>2)</sup> Please contact our customer service

<sup>3)</sup> Plus installation