

## Datasheet

# Thermal imager

### testo 885 – professional, versatile and precise thermography

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Detector size: 320 x 240 pixels

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SuperResolution technology with 640 x 480 pixels

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Thermal sensitivity < 30 mK

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Flexibility thanks to its rotating handle and rotating, fold-out display

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Exchangeable lenses

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Measurement mode for detecting mould-risk areas

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High temperature measurement up to 1,200 °C

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Panorama image assistant

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SiteRecognition technology

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The thermal imager testo 885 is the professional measuring instrument for the high-precision detection of anomalies and damage to building shells or interiors. The high-quality infrared measurement system means that energy losses or thermal bridges in building shells can be reliably detected, enabling comprehensive energy consultations to be carried out. Indoor leaks can be reliably located, without needing to

dismantle cable or pipeline systems. The intuitive testo 885 with its rotating handle, fold-out display and lots of helpful functions, such as panorama image assistant and auto-focus, makes it possible to carry out both quick on-site checks as well as comprehensive energy consultations with professional reports simply, reliably and professionally.

## Ordering data

### testo 885-1

Thermal imager testo 885-1 in a robust case incl. pro software, SD card, USB cable, carrying strap, lens cleaning cloth, mains unit, and Li ion rechargeable battery



Part no. 0563 0885 V1

### testo 885-2

Thermal imager testo 885-2 in a robust case, incl. pro software, SD card, USB cable, carrying strap, lens cleaning cloth, mains unit, Li ion rechargeable battery, headset

Part no. 0563 0885 V2

### testo 885-2 Set

Thermal imager testo 885-2 set in a robust case incl. pro software, SD card, USB cable, carrying strap, lens cleaning cloth, mains unit, Li ion rechargeable battery, headset, telephoto lens, lens bag, lens protection glass, spare battery and fast charger



Part no. 0563 0885 V3

## Accessories

	Code <sup>1)</sup> (Initial equipment)	Part 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 protection glass for optimum protection of the lens from dust and scratching	F1	0554 0289
Additional battery. Additional lithium-ion rechargeable battery for extending the operating time.	G1	0554 8852
Fast battery charger. Desktop charging station for two rechargeable batteries for the optimization of the charging time.	H1	0554 8851
High temperature measurement up to +1,200 °C	I1	<sup>2)</sup>
Humidity measurement*	E1	<sup>2) 3)</sup>
Telephoto lens 11° x 9°	D1	<sup>2)</sup>
Fully radiometric video measurement incl. logger function	J1	0554 8901
Emission adhesive tape. Adhesive tape, e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), $\epsilon = 0.95$ , temperature resistant to +250 °C		0554 0051
ISO calibration certificates; Calibration points at 0 °C, +25 °C, +50 °C		0520 0489
ISO calibration certificates; Calibration points at 0 °C, +100 °C, +200 °C		0520 0490
ISO calibration certificates; Freely selectable calibration points in the range -18 °C to +250 °C		0520 0495

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

<sup>1)</sup> When ordering as initial equipment, you receive the accessories directly in the case. Example: testo 885-1 incl. lens protection glass and SuperResolution: Order no. 0563 0885 V1 F1 S1

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

<sup>3)</sup> Plus installation

## Technical data

	testo 885-1	testo 885-2
<b>Infrared image output</b>		
Detector type	FPA 320 x 240 pixels, a.Si	
Thermal sensitivity (NETD)	< 30 mK at +30 °C	
Field of view/min. focus distance	30° x 23° / 0.1 m (Standard lens)	30° x 23° / 0.1 m (Tele: 11° x 9° / 0.5 m)
Geometric resolution (IFOV)	1,7 mrad (Standard lens)	1,7 mrad (Tele: 0.6 mrad)
SuperResolution (pixel / IFOV) - optional	640 x 480 pixels 1.06 mrad (standard lens), 0.38 mrad (telephoto lens)	640 x 480 pixels 1.06 mrad (standard lens), 0.38 mrad (telephoto lens)
Image refresh rate	33 Hz*	
Focus	auto / manual	
Spectral range	8 to 14 µm	
<b>Image output visual</b>		
Image size / min. focus distance	3.1 MP / 0.5 m	
<b>Image presentation</b>		
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	9 (iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo)	
<b>Measurement</b>		
Temperature range	-20 to +100°C / 0 to +350 °C (switchable)	
High temperature measurement - optional	-	+350 to +1,200 °C
Accuracy	±2 °C, ±2% of mv	
Emissivity / reflected temperature	0,01 to 1 / manual	
Transmission correction (atmosphere)	✓	
<b>Measuring functions</b>		
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 3 measurement points, Hot/Cold Spot Recognition, Area measurement (Min/Max & average), Isotherm and alarm values	

\* 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, China and Japan

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

	testo 885-1	testo 885-2
<b>Imager equipment</b>		
Digital camera	✓	
Standard lens	30° x 23°	
Exchangeable lenses - optional	-	11° x 9°
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	
Fully radiometric video measurement incl. logger function (via USB)	-	(✓)
<b>Image storage</b>		
File format single image	.bmt; export option in .bmp, .jpg, .png, .csv, .xls	
File format video (via USB)	.wmv, .mpeg-1	
Storage device	SD card 2GB (approx. 2.000 images)	
<b>Power supply</b>		
Battery type	Fast-charging, Li-ion battery can be changed on-site	
Operating time	4.5 hours	
Charging options	in instrument / in charger (optional)	
Mains operation	yes	
<b>Ambient conditions</b>		
Operating temperature range	-15 °C to +50 °C	
Storage temperature range	-30 to +60 °C	
Air humidity	+20 to +80% non-condensing	
Housing protection class (IEC 60529)	IP54	
Vibration (IEC 60068-2-6)	2G	
<b>Physical specifications</b>		
Weight	1.570 g	
Dimensions (L x W x H) in mm	253 x 132 x 111	
Tripod mounting	1/4" - 20UNC	
Housing	ABS	
<b>PC software</b>		
System requirements	Windows XP (Service Pack 3), Windows Vista, Windows 7 (Service Pack 1), interface USB 2.0	
<b>Standards, tests, warranty</b>		
EU Directive	2004 / 108 / EC	
Warranty	2 years	

✓ included in delivery

(✓) optional

- not available

## Overview of variants

Features	testo 885-1	testo 885-2	testo 885-2 Set
Detector	320 x 240 pixels		
Thermal sensitivity (NETD)	< 30 mK		
Temperature range	-20 to +350 °C		
Image refresh rate	33 Hz*		
SuperResolution	(✓)	(✓)	(✓)
Exchangeable telephoto lens 11° x 9°	-	(✓)	✓
Auto focus	✓	✓	✓
High temperature measurement up to 1,200 °C	-	(✓)	(✓)
Panorama image assistant	✓	✓	✓
SiteRecognition (measurement site recognition with image management)	-	✓	✓
Laser marker**	✓	✓	✓
Display of surface moisture distribution (by manual input)	-	✓	✓
Humidity measurement with wireless humidity probe*** (automatic measurement value transfer in real time)	-	(✓)	(✓)
Fully radiometric video measurement incl. logger function	-	(✓)	(✓)
Voice recording using the headset****	-	✓	✓
Solar mode	✓	✓	✓
Lens protection glass	(✓)	(✓)	✓
Additional battery	(✓)	(✓)	✓
Fast battery charger	(✓)	(✓)	✓

✓ included in delivery  
 (✓) optional  
 - not available

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 \*\* excepting USA, China and Japan  
 \*\*\* Wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia  
 \*\*\*\* Bluetooth only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Japan, Russia, Ukraine, India, Australia