

# Datasheet

## Thermal imager

**testo 876 – flexible thermography  
in practical camcorder design**



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Detector size 160 x 120 pixels

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SuperResolution technology to 320 x 240 pixels

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Thermal sensitivity < 80 mK

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Flexible fold-out, rotatable display

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Integrated digital camera

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Exchangeable lenses

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Special measurement mode for mould-risk areas

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With the thermal imager testo 876, you keep the flexible rotatable fold-out display in view when taking thermographic measurements in any position, securely reaching every corner. This allows you to identify anomalies

and weak spots completely non-intrusively in buildings, mechanical components, photovoltaic systems or switching cabinets. For you, that means a better overview, providing more security when measuring thermographically.

## Ordering data

### testo 876

Thermal imager testo 876 in a robust case incl. pro software, SD card, USB cable, lens cleaning cloth, headset, mains unit, and Li ion rechargeable battery



Part no. 0560 8761

**£ 3145.00**

### testo 876 Set

Thermal imager testo 876 set in a robust case incl. pro software, SD card, USB cable, lens cleaning cloth, headset, mains unit, Li ion rechargeable battery, telephoto lens 9° x 7°, lens protection glass, spare battery and fast charger



Part no. 0560 8762

**£ 4195.00**

## Accessories

	Part no.	£
SuperResolution. Four times more measurement values for even more detailed analysis of the thermal images	0554 7806	<b>263.00</b>
Fast battery charger. Desktop charging station for two rechargeable batteries for the optimization of the charging time.	0554 8851	<b>179.00</b>
Additional battery. Additional lithium-ion rechargeable battery for extending the operating time.	0554 8852	<b>86.52</b>
Lens protection glass. Special Germanium protective glass for optimum protection of the lens from dust and scratching	0554 8805	<b>233.00</b>
Retrofit telephoto lens. Please contact our customer service	–	<b>POA</b>
Emission adhesive tape. Adhesive tape, e.g. for reflective surfaces (roll, L.: 10 m, W.: 25 mm), $\epsilon = 0.95$ , temperature resistant to +250 °C	0554 0051	<b>73.92</b>
ISO calibration certificates; Calibration points at 0 °C, +25 °C, +50 °C	0520 0489	<b>718.42</b>
ISO calibration certificates; Calibration points at 0 °C, +100 °C, +200 °C	0520 0490	<b>718.42</b>
ISO calibration certificates; Freely selectable calibration points in the range -18 to +250 °C	0520 0495	<b>POA</b>

## Technical data

Infrared image output	
Detector type	160 x 120 pixels
Thermal sensitivity (NETD)	< 80 mK at +30 °C
Field of view/min. focus 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)
SuperResolution (pixel / IFOV) - optional	320 x 240 pixels / 2.1 mrad (standard lens), 0.6 mrad (telephoto lens)
Image refresh rate	9 Hz
Focus	manual and motor focus
Spectral range	7.5 to 14 µm
Image output visual	
Image size / min. focus 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	10 (iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT)
Measurement	
Temperature range	-20 to +100°C / 0 to +280 °C (switchable)
Accuracy	±2 °C, ±2 % of m.v.
Emissivity / reflected temperature	0.01 to 1 / manual
Measuring functions	
Display of surface moisture distribution (using manual input)	✓
Solar mode	✓
Analysis function	Standard measurement (1-point) Hot/Cold Spot Recognition, Isotherms, Area measurement (Min-/Max on Area)

Imager equipment	
Digital camera	✓
Motor focus	✓
Standard lens	32° x 23°
Exchangeable lenses - optional	9° x 7°
Voice recording	wired headset
Video streaming (via USB)	✓
Image storage	
File format	.bmt; export option in .bmp, .jpg, .png, .csv, .xls
Storage device	SD card 2GB (approx. 2.000 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 to +40 °C
Storage temperature range	-30 to +60 °C
Air humidity	20 to 80 % RH non- condensing
Housing protection class (IEC 60529)	IP54
Vibration (IEC 60068-2-6)	2G
Physical specifications	
Weight	Approx. 900 g
Dimensions (L x W x H) in mm	210 x 85 x 97
Tripod mounting	1/4" - 20UNC
Housing	ABS
PC software	
System requirements	Windows XP (Service Pack 3), Windows Vista, Windows 7 (Service Pack 1), Windows 8, interface USB 2.0
Standards, tests, warranty	
EU Directive	2004 / 108 / EC
Warranty	2 years

✓ Standard

## Overview of variants

Features	testo 876	testo 876 Set
Detector	160 x 120 pixels	
Thermal sensitivity (NETD)	< 80 mK	
Temperature range	-20 to +280 °C	
Image refresh rate	9 Hz	
Lens 32° x 23°	✓	✓
Exchangeable telephoto lens 9° x 7°	(✓)	✓
SuperResolution	(✓)	(✓)
Integrated digital camera	✓	✓
Display of surface moisture distribution (by manual input)	✓	✓
Voice recording using the headset	✓	✓
Motor focus	✓	✓
Isotherm display in instrument	✓	✓
Min/Max on Area calculation	✓	✓
Auto Hot/Cold Spot Recognition	✓	✓
Solar mode	✓	✓
Lens protection glass	(✓)	✓
Additional battery	(✓)	✓
Fast battery charger	(✓)	✓

✓ included in delivery

(✓) optional

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Subject to change without notice.  
All prices are net and valid until 31.12.2014.  
Shipping costs & VAT not included.



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