

We measure it.



Datasheet

Thermal imager

testo 875
the entry into professional
thermography



Detector size 160 x 120 pixels

SuperResolution technology to 320 x 240 pixels

Thermal sensitivity < 50 mK

Built-in digital camera with power LEDs

Exchangeable lenses

Measurement mode for detecting mould-risk areas

High temperature measurement up to 550 °C

The thermal imager testo 875 quickly and reliably detects anomalies and weak spots in materials and components. Thanks to an imaging process, energy losses and cold bridges as well as damage or overheating in industrial

systems are detected without contact. Whereas with other methods, cable or pipeline systems must be exposed over a large area, with the thermal imager testo 875, a single glance is enough.

Ordering data

testo 875-1

The thermal imager testo 875-1 with a detector resolution of 160 x 120 pixels, a thermal sensitivity of ≤ 80 mK and 32° standard lens. In a robust case including pro software, Soft-Case, carrying strap, SD-card, USB cable, lens cleaning cloth, mains unit, Li-ion rechargeable battery and tripod adapter.



Part no. 148888 8751

testo 875-2i

Thermal imager testo 875-2i in a robust case incl. pro software, Soft Case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, Li ion rechargeable battery, tripod adapter and headset.

Part no. 148888 8752i

testo 875-1i

Thermal imager testo 875-1i in a robust case incl. pro software, Soft Case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, Li ion rechargeable battery and tripod adapter.

Part no. 148888 8751i

testo 875-1iSR Advance set

Thermal imager testo 875-1iSR with SuperResolution in a robust case incl. pro software, Soft Case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, Li ion rechargeable battery and tripod adapter.

Part no. 148888 8751iSR

testo 875-S1 Building services set

Thermal imager testo 875-S1 with professional calibrator set incl. professional calibrator, pro software, Soft Case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, Li ion rechargeable battery, tripod adapter and headset.

Part no. 0563 0875S1



Professional heating calibrator with an aluminium surface can be used easily and made calibration safely. It is also possible to connect for the high-precision temperature control to ensure a reliable measurement. They are suitable for temperature measurement instrument from +50...310°C, with traceable calibration certificate.

Accessories	Type	Code ¹⁾ (First equipment testo 875)	Part no. (Retrofit)
Fast battery charger. Desktop charging station for two rechargeable batteries for the optimization of charging time		E1	0554 8801
Additional battery. Additional lithium ion rechargeable battery for extending the operating time		D1	0554 8802
Lens protection glass. Special Germanium protective glass for optimum protection of the lens from dust and scratching		C1	0554 8805
SuperResolution upgrade. Four times more measurement values for even more detailed analysis of the thermal images; please contact our customer service		S1	²⁾
Retrofit telephoto lens (testo 875-2i only); please contact our customer service		A1	²⁾
High temperature measurement up to 550 °C (testo 875-2i only); please contact our customer service		G1	²⁾
Humidity measurement with wireless humidity probe* (testo 875-2i only); please contact our customer service		B1	^{2) 3)}
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

¹⁾ When ordering as initial equipment, you receive the accessories directly in the case. Example: testo 875-1 incl. lens protection glass and spare battery: Order no. 148888 8751 C1 D1

²⁾ Please contact our customer service

³⁾ Plus installation

Technical data

	testo 875-1	testo 875-1i	testo 875-1iSR	testo 875-S1	testo 875-2i
Infrared image output					
Image resolution (Pixels)	160 x 120		320 x 240		160 x 120
Thermal sensitivity (NETD)	< 80 mK at +30 °C	< 50 mK at +30 °C			
Field of view/min. focus distance	32° x 23° / 0.1 m (Standard lens)				32° x 23° / 0.1 m (Tele: 9° x 7° / 0.5 m)
Geometric resolution (IFOV)	3,3 mrad (Standard lens)				3,3 mrad (Tele: 1.0 mrad)
SuperResolution (pixel / IFOV)	320 x 240 pixels / 2.1 mrad (Standard lens)				320 x 240 pixels / 2,1 mrad (Tele: 0.6 mrad)
Image refresh rate	9 Hz* (33Hz model is restricted to export in China under EU policies)				
Focus	manual				
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	IR image only / real image only/ IR and real image			
Video output	USB 2.0				
Colour palettes	10 types (iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted gray, sepia, Testo, iron HT)				
Image presentation					
Temperature range	-20 to +100°C / 0 to +280 °C (switchable)	-20 to +100°C / 0 to +350 °C (switchable)			
High temperature measurement – optional	-				+350 to +550 °C
Accuracy	±2 °C, ±2% of mv				±2 °C, ±2% of mv (±3% of mv at +350 to +500 °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	Centre point Hot/Cold Spot Recognition	up to 2 measurement points, Hot/Cold Spot Recognition			up to 2 measurement points, Hot/Cold Spot Recognition, Isotherms, Area measurement (Min-/Max on Area)

✓ included in delivery (✓) optional - not available

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*** excepting USA, China and Japan

Technical data

	testo 875-1	testo 875-1i	testo 875-1iSR	testo 875-S1	testo 875-2i
Imager equipment					
Digital camera	-			✓	
Power LEDs	-	-	-	-	✓
Standard lens	32° x 23°				
Exchangeable lenses - optional	-	-	-	-	9° x 7°
Laser (laser classification 635 nm, Class 2)***	-			✓	
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)				
Calibrator heat source (testo 875-1S only)					
Temperature Range	+50 to +310 °C				
Heat control accuracy	±2K				
Dimensions (W x H x D)	160 x 85 x 270 mm				
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% 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	152 x 108 x 262 mm				
Tripod mounting	M6				
Housing	ABS				
PC software					
System requirements	Windows XP (Service Pack 3), Windows Vista, Windows 7 (Service Pack 1), interface USB 2.0				
Standards, tests, warranty					
EU Directive	2004 / 108 / EC				
Warranty	1 year				

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Overview of variants

Features	testo 875-1	testo 875-1i	testo 875-1iSR	testo 875-S1	testo 875-2i
Image resolution (pixels)	160 x 120		320 x 240		160 x 120
Thermal sensitivity (NETD)	< 80 mK	< 50 mK			
Temperature range	-20 to +280 °C	-20 to +350 °C			
Image refresh rate	9 Hz* (33Hz model is restricted to export in Hong Kong / China under EU policies)				
Lens 32° x 23°	✓	✓	✓	✓	✓
Exchangeable telephoto lens 9° x 7°	-	-	-	-	(✓)
High temperature measurement up to 550 °C	-	-	-	-	(✓)
Integrated digital camera	-	✓	✓	✓	✓
Integrated power LEDs	-	-	-	-	✓
Voice recording using the headset	-	-	-	-	✓
Laser marker**	-	✓	✓	✓	✓
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	✓	✓	✓	✓	✓
Calibrator heat source	-	-	-	✓	-
Lens protection glass	(✓)	(✓)	(✓)	(✓)	(✓)
Additional battery	(✓)	(✓)	(✓)	✓	(✓)
Fast battery charger	(✓)	(✓)	(✓)	✓	(✓)

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✓ included in delivery
 (✓) optional
 - not available

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