Be sure. **testo**

Thermal imager

testo 875i – versatile professional-level thermography

Thermal Resolution- SR- 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

°C

%RH

SUPER RESOLUTION
4X MORE
MEASUREMENT VALUES

The testo 875i thermal imager detects anomalies and weak spots in materials and components quickly and reliably. 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 875i, a single glance is enough. Testo SuperResolution technology provides thermal resolution of 320 X 240 pixels, which can be seen in the software testo IRSoft . That's four times as many readings, enabling you to spot even the smallest irregularities.

Ordering data

testo 875-1i

Thermal imager testo 875-1i with integrated testo SuperResolution and digital camera, in a robust case, including professional software, soft case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, rechargeable Li-ion battery and tripod adapter

Part no. 0563 0875 V1

testo 875-2i

Thermal imager testo 875-2i with integrated testo SuperResolution and digital camera, in a robust case including professional software, soft case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, rechargeable Li-ion battery, tripod adapter and headset

Part no. 0563 0875 V2

testo 875-2i set

Thermal imager testo 875-2i set with integrated testo SuperResolution and digital camera, in a robust case, including professional software, soft case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, rechargeable Li-ion battery, tripod adapter, headset, 9° x 7° lens, lens protector, spare rechargeable battery and fast battery charger

Part no. 0563 0875 V3

Accessories

	Code[1] (First equipment testo 875i)	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	
Retrofit lens (for testo 875-2 only); please contact our customer service	A1	[2]	
High temperature measurement up to 550 °C (testo 875-2i only)	G1	[2]	
Humidity measurement with wireless humidity probe* (testo 875-2i only)	B1	[2] [3]	
Emission adhesive tape. Adhesive tape, e.g. for reflective surfaces (roll, L.: 10 m, W.: 25 mm), ε = 0.95, temperature resistant to +250 °C		0554 0051	
PC software testo IRSoft for data analysis and reporting		0501 8809	
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 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 875-1i incl. lens protection glass and spare battery: Order no. 0563 0875 V1 C1 D1
[2] Please contact our customer service
[3] Plus installation

Technical data

Infrared image output	testo 875-1i	testo 875-2i
Thermal resolution (SuperResolution)	320 x 240 pixels	
Thermal sensitivity (NETD)	< 50 mK at +30 °C	
Field of view/min. focus distance	32° x 23° / 0.1 m	32° x 23° / 0.1 m
IFOV	2.1 mrad for 32° x 23° lens	0.6 mrad (for 9° x 7° lens)
		2.1 mrad (for 32° x 23° lens)
Geometric resolution (IFOV)	3.3 mrad	3.3 mrad
Image refresh rate	9 Hz/ 33 Hz	
Focus	manual	
Spectral range	7.5 to 14 µm	

Image output visual		
Image size / min. focus distance	2.7 MP	

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	10 (iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT)	

Measurement		
Measuring range	-30 to +100°C / 0 to +350 °C (switchable)	
Accuracy	±2 °C, ±2 % of m.v. (±3 °C of m.v. at -30 to -22 °C)	
High temperature measurement – optional	–	+350 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	up to 2 measurement points, Hot/Cold Spot Recognition, Isotherms, Area measurement (Min-/ Max on Area)

Imager equipment	testo 875-1i	testo 875-2i
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. 2000 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 +50 °C	
Storage temperature range	-30 to +60 °C	
Air humidity	10 to 90 % 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	152 x 108 x 262	
Tripod mounting	M6	
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	

*   Text annotation: In folders and within software for reporting.
** Wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia
*** excepting USA, China and Japan

✓   included in delivery
(✓) optional
–   not available

Overview of variants

Features	testo 875-1i	testo 875-2i	testo 875-2i Set
Thermal resolution (SR)	320 x 240 pixels		
Thermal sensitivity (NETD)	< 50 mK		
Measuring range	-30 to +350 °C		
Image refresh rate	9 Hz/ 33 Hz		
Lens 32° x 23°	✓	✓	✓
Lens 9° x 7°	–	(✓)	✓
SuperResolution	✓	✓	✓
High temperature measurement up to 550 °C	–	(✓)	(✓)
Integrated digital camera	✓	✓	✓
Integrated power LEDs	–	✓	✓
Voice recording using the headset	–	✓	✓
Laser pointer**	✓	✓	✓
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	✓	✓	✓
Lens protection glass	(✓)	(✓)	✓
Additional battery	(✓)	(✓)	✓
Fast battery charger	(✓)	(✓)	✓

✓ included in delivery
(✓) optional
– not available

* excepting USA, China and Japan
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