Be sure. **testo**

Thermal imager

testo 875i - versatile professional-level thermography

Infrared resolution 160 x 120 pixels testo SuperResolution technology to 320 x 240 pixels

Thermal sensitivity < 50 mK

Measurement mode for detecting mould-risk areas

Built-in digital camera with power LEDs

Exchangeable lenses

High temperature measurement up to 550 °C



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 also increases the resolution of the testo 875i from 160 x 120 pixels in the Software testo IRSoft to 320 x 240 pixels. 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 pro software (free download), 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



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



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Part no. 0563 0875 V2

Accessories

	equipment testo 875i)		
SuperResolution. Four times more measurement values for even more detailed analysis of the thermal images	included in delivery	0554 7806	
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 telephoto 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	
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			
ISO calibration certificates; Freely selectable calibration points in the range -18 to +250 °C			

*Wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia 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
Please contact our customer service
Plus installation

Code¹⁾

(First

Part no.

(Retrofit)

testo 875-2i set

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



Part no. 0563 0875 V3



Technical data

Infrared improvements of	testo 875-1i	testo 875-2i	
Infrared image output	100 11		
Infrared resolution	160 x 120 pixels		
Thermal sensitivity (NETD)	< 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	33 Hz*		
Focus	mai	nual	
Spectral range	7.5 to 14 μm		
Image output visual			
Image size / min. focus distance	640 x 480 pixels / 0.4 m		
Image presentation	<u> </u>		
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, Testc iron HT)		
Measurement	1		
Measuring range	-30 to +100°C / 0 to +350 °C (switchable)		
Accuracy	±2 °C, ±2 % of measurement value (larger value applies) (±3 °C of m.v. at -30 to -22 °C)		
High temperature measurement – optional	-	+350 to +550 °C	
Accuracy		±3 % of m.v. at +350 to +550 °C	
Emissivity / reflected temperature	0.01 to 1 / manual		
Measuring functions	·		
Display of surface moisture distribution (using manual input)	-	\checkmark	
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)	

	testo 875-1i	testo 875-2i	
Imager equipment			
Digital camera			
Power LEDs	_		
Standard lens	32° :	v x 23°	
Exchangeable lenses - optional	_	9° x 7°	
Laser (laser classification			
635 nm, Class 2)***	\checkmark		
Voice recording	-	wired headset	
Video streaming (via USB)	ν	/	
Image storage	1		
File format	.bmt; export option in .bmp, .jpg, .png, .csv, .xls		
Storage device	SD card 2GB (approx. 2.000 images)		
Power supply	1		
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	1		
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	1		
Weight	Approx. 900 g		
Dimensions (L x W x H) in mm	152 x 108 x 262		
Tripod mounting	M6		
Housing	AI	BS	
PC software			
System requirements	Vista, Windows 7	ce Pack 3), Windows 7 (Service Pack 1), reface USB 2.0	
Standards, tests	·		
EU Directive	2004 / 1	108 / EC	

 \checkmark included in delivery

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

(🗸) optional

not available



Overview of variants

Features	testo 875-1i	testo 875-2i	testo 875-2i Set	
Infrared resolution	160 x 120 pixels			
Thermal sensitivity (NETD)	< 50 mK			
Measuring range	-30 to +350 °C			
Image refresh rate	33 Hz*			
Lens 32° x 23°	\checkmark	\checkmark	\checkmark	
Exchangeable telephoto lens 9° x 7°	_	(√)	\checkmark	
SuperResolution	\checkmark	\checkmark	\checkmark	
High temperature measurement up to 550 °C	-	(√)	(√)	
Integrated digital camera	\checkmark	\checkmark	\checkmark	
Integrated power LEDs	_	\checkmark	\checkmark	
Voice recording using the headset	_	\checkmark	\checkmark	
Laser pointer**	\checkmark	\checkmark	\checkmark	
Display of surface moisture distribution (by manual input)	_	\checkmark	\checkmark	
Humidity measurement with wireless humidity probe*** (automatic measurement value transfer in real time)	-	(√)	(
Isotherm display in instrument	-	\checkmark	\checkmark	
Min/Max on Area calculation	_	\checkmark	\checkmark	
Auto Hot/Cold Spot Recognition	\checkmark	\checkmark	\checkmark	
Solar mode	\checkmark	\checkmark	\checkmark	
Lens protection glass	(√)	(√)	\checkmark	
Additional battery	(√)	(√)	\checkmark	
Fast battery charger	(🗸)	(√)	\checkmark	

 \checkmark included in delivery

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^(√) optional not available