

Thermal imager

testo 875i - versatile professional-level thermography

Infrared resolution 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 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 professional software, soft case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, rechargeable Li-ion battery and tripod adapter





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



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Part no. 0563 0875 V2

Accessories

(First (Retrofit) equipment testo 875i) Fast battery charger. 0554 8801 E1 Desktop charging station for two rechargeable batteries for the optimization of charging time Additional battery. D1 0554 8802 Additional lithium ion rechargeable battery for extending the operating time 0554 8805 Lens protection glass. C1 Special Germanium protective glass for optimum protection of the lens from dust and scratching A1 2) Retrofit telephoto lens (for testo 875-2 only); please contact our customer service High temperature measurement up to 550 $^\circ\mathrm{C}$ (testo 875-2i only) G1 2) 2) 3) Humidity measurement with wireless humidity probe* Β1 (testo 875-2i only) 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; 0520 0489 Calibration points at 0 °C, +25 °C, +50 °C ISO calibration certificates; 0520 0490 Calibration points at 0 °C, +100 °C, +200 °C ISO calibration certificates; 0520 0495 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 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

Code¹⁾

Part no.

²⁾ Please contact our customer service

³⁾ Plus installation

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° telephoto lens, lens protector, spare rechargeable battery and fast battery charger Part no. 0563 0875 V3



Technical data

	testo 875-1i	testo 875-2i	
Infrared image output			
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	manual		
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" 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	
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	\checkmark		
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	_	\checkmark	
Standard lens	32° x 23°		
Exchangeable lenses - optional	_	9° x 7°	
Laser (laser classification 635 nm, Class 2)***	\checkmark		
Voice recording	-	wired headset	
Video streaming (via USB)	v	/	
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	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, warrant	ty		
EU Directive	2004 / 108 / EC		
Warranty	2 years		

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

 \checkmark included in delivery

(🗸) 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	
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	

✓ included in delivery (√) optional

not available

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inside the EU, outside 9 Hz excepting USA, China and Japan Wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia *** Indonesia

Authorized & Exclusive Distributor:

👯 Enviro Engineering General Trading LLC Instrumentation, Automation & Networking 0 \mathbf{O}

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OFFICE HOURS: Saturday to Wednesday: 8:30 AM - 5:00 PM Thursday: 8:30 AM - 1:30 PM



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