

Thermal imager

testo 875 and testo 875i 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 LED's

Exchangeable lenses

Measurement mode for detecting areas with danger of mould

High temperature measurement up to 550 °C



The thermal imager testo 875 quickly and reliably detects anomalies and weak spot 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.

The advantages of the testo 875 and testo 875i



Detector size 160 x 120 pixels

With 19,200 temperature measurement points, the measurement objects are detected in very good image quality, clearly and precisely.



SuperResolution technology (to 320 x 240 pixels)

SuperResolution technology improves the image quality by one class, i.e. the resolution of the thermal images is four times higher.



Thermal sensitivity < 50 mK

Thanks to an excellent temperature resolution of up to < 50 mK, even small temperature differences are visible.



Built-in digital camera with power LEDs

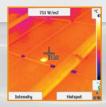
Parallel to the thermal image, a real image of each measurement object is also stored.



Automatic Hot/Cold Spot Recognition

Critical temperature stati are directly displayed using the automatic Hot-Cold-Spot recognition

Function of the PC software: Image overlay TwinPix



Solar mode

For each measurement, the sun irradiation value can be entered into the camera. This value is stored for each thermal image.



Special measurement mode for detecting areas with danger of mould

Using the externally measured ambient temperature and air humidity, as well as the surface temperature, the humidity value of each measurement point is caculated and shown in the display as areal humidity image.



Exchangeable lenses

Technical data testo 875 and testo 875i



Lens protection glass



Intuitive operation



testo 875-1	testo 875-1i	testo 875-2i		
	FPA 160 x 120 pixels	, a.Si		
< 80 mK at 30 °C < 50 mK at 30 °C				
$32^{\circ} \times 23^{\circ} / 0.1 \text{ m} (\text{standard lens})$				
1,0 mrad (telephoto lens)				
	0,6 mrad (telephoto l			
9 Hz		33 Hz*		
	8 to 14 µm			
_	640 x 480	pixels / 0.4 m		
3.				
IR image only		lly / real image /		
		real image		
10 (iron roinhour r		blue red grow inverte		
	grey, sepia, resto, iroi			
-20 to +100 °C/0 to	-20 to	+100 °C /		
+280 °C (switchable)		C (switchable)		
	-	+350 to +550 °C		
±2 °C, ±2	2% of m.v.	±2 °C, ±2% of m.v. ±39		
		of m.v. (+350 to +550 °C		
-	manual	-		
_	_	1		
		\checkmark		
** -	-	(λ)		
		` v ′		
	\checkmark			
Centre point meas-	Up to 2 measure-	Up to 2 measurement		
,		points, hot/cold Spo		
		recognition, isothern area measurement		
recognition	necognition	(Min-/Max-On-Area)		
-		\checkmark		
-	-	\checkmark		
	32° x 23°			
-	-	9° x 7°		
-		wired headset		
-	-	wired headset		
	1			
and the second se	v			
.bmt; expc	ort options in .bmp, .jp	g, .png, .csv, .xls		
SD c	ard 2 GB (approx. 2.0	00 images)		
Fast-chargin		be changed on-site		
4 hours				
		In instrument/in charging station (optional)		
In instr	0 0			
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In instr	Yes			
In instr	Yes -15 °C to +40 °C			
	Yes)		
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	Yes -15 °C to +40 °C -30 °C to +60 °C 20% to 80% non-cond IP 54 2G approx. 900 g 152 x 108 x 262 M6) Jensing		
	Yes -15 °C to +40 °C -30 °C to +60 °C 20% to 80% non-cond IP 54 2G approx. 900 g 152 x 108 x 262) Jensing		
2	Yes -15 °C to +40 °C -30 °C to +60 °C 20% to 80% non-cond IP 54 2G approx. 900 g 152 x 108 x 262 M6) Jensing		
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Windows XP (S	Yes -15 °C to +40 °C -30 °C to +60 °C 20% to 80% non-conc IP 54 2G approx. 900 g 152 x 108 x 262 M6 ABS Service Pack 3) Windo rvice Pack 1), interfact	b Jensing ws Vista, Windows 7 e USB 2.0		
Windows XP (S	Yes -15 °C to +40 °C -30 °C to +60 °C 20% to 80% non-conc IP 54 2G approx. 900 g 152 x 108 x 262 M6 ABS Service Pack 3) Windo	b Jensing ws Vista, Windows 7 e USB 2.0		
	 < 80 mK at 30 °C 32' 9' 9 Hz 9 Hz 10 (iron, rainbow, r 10 (iron, rainbow, r -20 to +100 °C/0 to +280 °C (switchable) ±2 °C, ±2 ±2 °C, ±2 Centre point measurement, Hot-/Cold-Spot recognition Centre point measurement, Hot-/Cold-Spot recognition - -	FPA 160 x 120 pixels< 80 mK at 30 °C		

not available

* Wireless humidity probes only in the EU, Norway, Switzerland, Croatia, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia

*** Excepting USA, Japan and China

Overview of variants

Features	testo 875-1	testo 875-1i	testo 875-2i	testo 875-2i set	
Detector		160 x 120 pixels			
Thermal sensitivity (NETD)	< 80 mK	< 50 mK			
Temperature range	-20 to +280 °C	-20 to +350 °C			
Image refresh rate	9 Hz	33 Hz*			
Lens 32° x 23°	\checkmark	\checkmark	\checkmark	\checkmark	
Exchangeable telephoto lens 9° x 7°	-	-	(🗸)	\checkmark	
SuperResolution	(🗸)	(🗸)	(🗸)	()	
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**	-	\checkmark	\checkmark	\checkmark	
Display of surface moisture (via manual input)	-	-	\checkmark	\checkmark	
Humidity measurement with wireless humidity probe*** (automatic measure- ment 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	\checkmark	
Solar mode	\checkmark	\checkmark	\checkmark	\checkmark	
Lens protection glass	(🗸)	(🗸)	(🗸)	✓	
Additional battery	(🗸)	(🗸)	(🗸)	✓	
Fast battery charger	(🗸)	(🗸)	(🗸)	\checkmark	

✓ included in delivery

(🗸) optional

* Within the EU and for countries without export restrictions, otherwise 9 Hz ** excepting USA, China and Japan

*** Wireless humidity probes only in the EU, Norway, Switzerland, Croatia, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia

Ordering data

Thermal imagers testo 875 and 8	375i	
		Order no.
Thermal imager testo 875-1 in a robust case incl. pro software, Soft Cas strap, SD card, USB cable, lens cleaning clo Li ion rechargeable battery and tripod adap	oth, mains unit,	0560 8751
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.		0563 0875 V1
Thermal imager testo 875-2i in a robust case incl. pro software, Soft Cas strap, SD card, USB cable, lens cleaning clu Li ion rechargeable battery and tripod adap	incl. pro software, Soft Case, carrying JSB cable, lens cleaning cloth, mains unit,	
Thermal imager testo 875-2i set in a robust case incl. pro software, Soft Cas strap, SD card, USB cable, lens cleaning clo Li ion rechargeable battery and tripod adap	oth, mains unit,	0563 0875 V3
In addition to the equipment of the testo 875-2i, the testo 875-2i set also includes: • Telephoto lens 9° x 7° • Lens protection glass • Additional battery • Fast battery charger		
Accessories	Code ¹⁾ (First equipment testo 875i)	Order no. (Retrofit)
SuperResolution. Four times more mea- surement values for even more detailed analysis of the thermal images.	S1	0554 7806
Lens protection glass. Special Germanium protective glass for optimum protection of the lens from dust and scratching	C1	0554 8805
Additional battery. Lithium ion rechargeable battery for extending the operating time	e D1	0554 8802
Fast battery charger. Desktop charging station for two rechargeable batteries for the optimization of the charging time.	E1	0554 8801
Telephoto lens 9° x 7° (testo 875-2i only)	A1	2)
High temperature measurement up to 550 °C (testo 875-2i only)	G1	2)
Humidity measurement with wireless humidity probe*** (nur testo 875-2i)	B1	2) 3)
Emissivity adhesive tape. Adhesive tape, e faces (roll, L.: 10 m, W.: 25 mm), e=0.95, temperature-resistant to +250 °C	.g. for bare sur-	0554 0051
ISO calibration certificates Calibration points at 0 °C, +25 °C, +50 °C Calibration points at 0 °C, +100 °C, +200 °C Freely selectable calibration points in the rance -18 °C to +250 °C	2	0520 0489 0520 0490 0520 0495

range -18 °C to +250 °C

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

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