

The entry into professional thermography



testo 875



The advantages of testo 875



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.



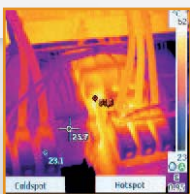
Thermal sensitivity < 80 mK

Thanks to an excellent temperature resolution of < 80 mK, even small temperature differences are visible.



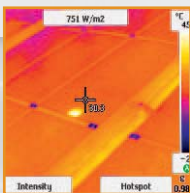
Integrated digital camera

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



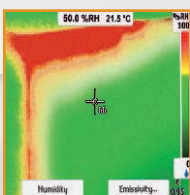
Automatic Hot/Cold Spot Recognition

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



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 calculated and shown in the display as a real humidity image.



Exchangeable lenses

Function of the PC software: Image overlay TwinPix



Technical data testo 875



Lens protection glass



Intuitive operation



	testo 875-1	testo 875-2
Infrared image output		
Detector type	FPA 160 x 120 pixels, a.Si	
Thermal sensitivity (NETD)	< 80 mK at 30 °C	
Field of view/min. focus distance	32° x 23° / 0.1 m (standard lens) 9° x 7° / 0.5 m (telephoto lens)	
Geometric resolution (IFOV)	3.3 mrad (standard lens), 1.0 mrad (telephoto lens)	
SuperResolution (pixel / IFOV) - optional	320 x 240 pixels / 2.1 mrad (standard lens) 0.6 mrad (telephoto lens)	
Image refresh rate	9 Hz	
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	4 (iron, rainbow, blue-red, shades of grey)	
Measurement		
Temperature range	-20 °C to +100 °C / 0 °C to +280 °C (switchable)	
Accuracy	±2 °C, ±2% of m.v.	
Emissivity / reflected temperature	0.01 to 1 / manual	
Measuring functions		
Display of surface moisture distribution (using manual input)	–	✓
Solar mode	✓	
Analysis function	Centre point measurement, Hot/Cold Spot Recognition	Standard measurement (1- point), Hot/Cold Spot Recognition
Imager equipment		
Digital camera	–	✓
Standard lens	32° x 23°	
Exchangeable lenses - optional	–	9° x 7°
Video streaming (via USB)	✓	
Image storage		
File format	.bmt; export options in .bmp, .jpg, .png, .csv, .xls	
Storage device	SD card 2 GB (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 °C to +40 °C	
Storage temperature range	-30 °C to +60 °C	
Air humidity	20% to 80% non-condensing	
Housing protection class (IEC 60529)	IP 54	
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, Interface USB 2.0	
Standards, tests, warranty		
EU Directive	2004 / 108 / EC	
Warranty	2 years	

✓ Standard

– not available

Overview of variants

Features	testo 875-1	testo 875-2	testo 875-2 set
Detector	160 x 120 pixels		
Thermal sensitivity (NETD)	< 80 mK		
Temperature range	-20 to +280 °C		
Image refresh rate	9 Hz		
Lens 32° x 23°	✓	✓	✓
Exchangeable telephoto lens 9° x 7°	-	(✓)	✓
SuperResolution	(✓)	(✓)	(✓)
Integrated digital camera	-	✓	✓
Display of surface moisture distribution (by manual input)	-	✓	✓
Auto Hot/Cold Spot Recognition	✓	✓	✓
Solar mode	✓	✓	✓
Lens protection glass	(✓)	(✓)	✓
Additional battery	(✓)	(✓)	✓
Fast battery charger	(✓)	(✓)	✓

✓ included in delivery (✓) optional - not available

Ordering data

Thermal imagers testo 875	Order no.
Thermal imager testo 875-1 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.	0560 8751
Thermal imager testo 875-2 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.	0560 8752
Thermal imager testo 875-2 set 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 8752

In addition to the equipment of the testo 875-2, the testo 875-2 set also includes:

- Telephoto lens 9° x 7°
- Lens protection glass
- Additional battery
- Fast battery charger



Accessories	Order no.
SuperResolution. Four times more measurement values for even more detailed analysis of the thermal images.	0554 7806
Fast battery charger. Desktop charging station for two rech. batteries for the optimization of the charging time.	0554 8801
Additional battery. Additional Lithium ion rechargeable battery for extending the operating time.	0554 8802
Lens protection glass. Special Germanium protective glass for optimum protection of the lens from dust and scratching	0554 8805
Retrofit telephoto lens (testo 875-2 only). Please contact our customer service.	-
Aluminium tripod. Professional, extremely light and stable aluminium tripod with Quick-Release legs and 3-way tripod head.	0554 8804
Emissivity adhesive tape. Adhesive tape, e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), e=0,95, temperature-proof up to +250 °C.	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 range -18 °C to +250 °C	0520 0489 0520 0490 0520 0495