

The testo 875 and testo 881 thermal imagers carry out fast and efficient tests on heating and air conditioning/ventilation systems. testo 875 and testo 881 support you in finding the cause when leaks are detected in floor heating systems or other difficult to access pipe systems. Defective installations can be accurately recognised by the thermal imager making it possible to quickly carry out damage control and specific maintenance. testo 875 and testo 881 thermal imagers detect energy losses quickly and without damage. Weak points such

testo 875 and testo 881 for professional building thermography

















tely on Testo's thermal imager. Even the smallest temperature differences can be identified with the high temperature resolution of the Testo thermal imagers. Exchangeable telephoto lenses ensure top flexibility and that, depending on the application, the right image section can always be seen in the camera's display. The digital camera which is also built-in

makes documentation easy.

as heat bridges as well as construc-

tion and building defects on the building's facade are displayed immedia-

Via the manual input of ambient temperature, air humidity and dewpoint in the room, testo 875 and testo 881 visualize mould risk spots in the thermal image at a glance. This important data helps improve indoor climate and prevent dangerous allergenic mould growth, or minimize the risk of mould - even in the hidden corners and niches of a house. With the Testo thermal imagers you are hot on the trail of burst pipes and can accurately check heating systems and installations.

Professional analysis software

Clearly structured and user-friendly PC software allows comprehensive analysis and evaluation of thermograms. You can now process, analyze and document several parallel infrared images in a report together with their respective real images. Especially for the purpose of examining building shells for heat bridges, the software offers report templates, with which reports compliant with DIN EN 13187 can be created. In order to achieve precise analysis results, it is possible to correct the thermal image according to the different emissivities of the various materials by area, right up to individual pixels. Pro software is included with all Testo thermal imagers.



The 4 most important advantages of the thermal imager testo 875

Good image quality

With the temperature resolution of <80 mK, even the smallest temperature differences are displayed.



Integrated digital camera

The testo 875 with integrated digital camera links real and



infrared images for your fast and easy documentation of the measurement.

Automatic Hot-Cold-Spot recognition

Critical temperature statuses are displayed using auto-

matic Hot-Cold-Spot recognition. This guarantees uninterrupted error localization on site. Auto Hot/Cold Spot Recognition facilitates analysis and documentation when evaluating the details later on a PC.



Via the manual input of ambient temperatire, air humidity and dewpoint in the



room, the testo 875 visualizes mouldrisk spots in the thermal image at a





Part no. 0560 8751

testo 875-2

Part no. 0560 8752

testo 875-2 Set

Part no. 0563 8752















The 5 most important advantages of the thermal imager testo 881

Highest image qua-

With a thermal resolution of <50 mk, the testo 881 delivers high definition ima-

ges which emphasize and visualize even the smallest temperature differences.

NETD

<50 mK

Isotherm function

With the optical coloured alarm, critical temperature areas on the measurement object are



marked immediately in colour.

Detection of mould risk spots

dewpoint in the room, the testo 875 spots in the thermal image at a glance.

Voice recording

The practical headset and the integrated speech recording function simplify the documentation of the



measurement results. Every image can be commented directly on site. This valuable information is stored together with the thermal image.

Via the manual input of ambient temperature, air humidity and

and testo 881 visualize mould risk

Integrated digital camera with power **LEDs**

In addition to infrared recording, the testo 881 creates a parallel

real image of the measurement site with the integrated digital camera. The power LEDs guarantee optimum illumination of dark areas when recording real images.

testo 881-1

Part no. 0563 0881 V1

testo 881-2

Part no. 0563 0881 V2

testo 881-3

Part no. 0563 0881 V3

testo 881-3 Set

Part no. 0563 0881 V4



Ordering overview testo 875



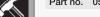
testo 875-1

- · NETD < 80 mK
- \cdot High quality standard lens 32° x 23°
- · Auto Hot/Cold Spot Recognition
- · Manual focus
- · Temperature range -20 to +280 °C













- testo 875-2 · NETD < 80 mK
- · High quality standard lens 32° x 23°
- · Integrated digital camera
- · Display of surface moisture distribution
- · Auto Hot/Cold Spot Recognition
- · Manual focus
- \cdot Temperature range -20 to +280°C
- · Telephoto lens (optional)

Part no. 0560 8752



- · NETD < 80 mK
- \cdot High quality standard lens 32° x 23°
- · Integrated digital camera
- · Display of surface moisture distribution
- · Auto Hot/Cold Spot Recognition
- · Manual focus
- \cdot Temperature range -20 to +280 $^{\circ}\text{C}$

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

- · Telephoto lens 9° x 7°
- · Protective lens
- · Additional battery
- · Charger
- · Sun Shield

Part no. 0563 8752





Ordering overview testo 881

testo 881-1

- · NETD < 50 mK
- · High quality standard lens 32° x 23°
- · Integrated digital camera
- · Auto Hot/Cold Spot Recognition
- · Manual focus
- \cdot Temperature range -20 to +350 $^{\circ}\text{C}$
- · 33 Hz (inside the EU, outside 9 Hz)

Part no. 0563 0881 V1

testo 881-2

- · NETD < 50 mK
- · High quality standard lens 32° x 23°
- · Telephoto lens (optional)
- · Auto Hot/Cold Spot Recognition
- · Display of surface moisture distribution
- · Manual focus
- $\cdot\,$ Temperature range -20 to +350°C
- · 33 Hz (inside the EU, outside 9 Hz)
- · Headset for speech recording
- · Lens protection glass
- · Isotherm display in instrument
- · Min-/Max on Area calculation

Part no. 0563 0881 V2

testo 881-3

- · NETD < 50 mK
- · High quality standard lens 32° x 23°
- · Telephoto lens (optional)
- · Built-in digital camera with power LEDs
- · Display of surface moisture distribution
- · Auto Hot/Cold Spot Recognition
- · Dynamic motor focus
- · Temperature range -20 to +350°C
- · 33 Hz (inside the EU, outside 9 Hz)
- · Headset for speech recording
- · Lens protection glass
- · Isotherm display in instrument
- · Min-/Max on Area calculation
- · High temperature measurement (optional)

Part no. 0563 0881 V3

testo 881-3 Set

- · NETD < 50 mK
- · High quality standard lens 32° x 23°
- · Built-in digital camera with power LEDs
- · Display of surface moisture distribution
- · Auto Hot/Cold Spot Recognition
- Dynamic motor focus
- · Temperature range -20 to +350°C
- · 33 Hz (inside the EU, outside 9 Hz)
- · Headset for speech recording
- · Lens protection glass
- · Isotherm display in instrument
- · Min-/Max on Area calculation
- · High temperature measurement (optional)

In addition to the equipment of testo 881-3, the set also includes:

- · Telephoto lens 9° x 7°
- · Additional battery
- · Charger
- · Soft-Case

Part no. 0563 0881 V4

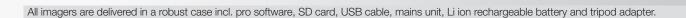


		testo 881-1	testo 881-2	testo 881-3	testo 881-3 Set
	Part no.	0563 0881 V1	0563 0881 V2	0563 0881 V3	0563 0881 V4
Additionally in the case:					
Lens protection glass	C1				
Telephoto lens	A1	_			
Additional battery	D1				
Fast battery charger	E1			0	
Soft-Case	H1				
High temperature measurement	G1	_	_		





Not available















Aluminium tripod

Professional,

and stable

with Quick-

3-way tripod

extremely light

aluminium tripod

Release legs and

Accessories for testo 875 and testo 881 thermal imagers









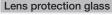












Special Germanium protective glass for optimum protection of the lens from dust and sctratching



Part no. 0554 8805

Additional battery

Additional lithium ion rechargeable battery for extending the operating time



Part no. 0554 8802

Fast battery charger

Desktop charging station for two rechargeable batteries for the optimization of charging time



Part no. 0554 8801

Sun Shield

Special sun shield for the display of testo 881 and testo 875 in bright surroundings



Part no. 0554 8806

Soft-Case

Practical carrying option for testo 881 and testo 875 (incl. shoulder strap)



Part no. 0554 8814

Additional accessories	Part no.
Retrofit telephoto lens (for testo 881-2 and -3 and testo 875-2 only); please contact our Service.	
Retrofit high temperature measurement (for testo 881-3 only); Please contact our Service.	
Adhesive tape, e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), E = 0.95, temperature resistant to +250 °C	0554 0051
ISO calibration certificates for testo 875, testo 881 Calibration points at 0 °C, 25 °C, 50 °C in measuring range -20 °C to 100 °C	0520 0489
ISO calibration certificates for testo 881 Calibration points at 0 °C, 100 °C, 200 °C in measuring range 0 °C to 350 °C	0520 0490
ISO calibration certificates for testo 875, testo 881 Freely selectable calibration points in the range -18 °C to 250 °C	0520 0495



Technical data for testo 875 and testo 881 thermal imagers

	testo 875-1	testo 875-2	testo 881-1	testo 881-2	testo 881-3	
Infrared image output						
Detector type		120 pixels, a.Si	FPA 160 x 120 pixels, a.Si			
Thermal sensitivity (NETD)		K at +30 °C	< 50 mK at +30 °C			
Field of vision/min. focusing distance	(telep	ndard lens), 9° x 7° / 0.5 m hoto lens)	32° x 23° / 0.1 m (standard lens), 9° x 7° / 0.5 m (telephoto lens)			
Geometric resolution (IFOV)	,	s), 1.0 mrad (telephoto lens)	3.3 mrad (standard lens), 1.0 mrad (telephoto lens)			
Image refresh rate		9 Hz	33 Hz for EU, otherwise 9 Hz			
Focus	manual 8 to 14 µm		man	uai 8 to 14 μm	manual and motor focu	
Spectral range Visual image output	0 10) 14 μιτι		ο το 14 μπ		
Field of vision/min. focusing distance	_	33° x 25° / 0.4 m	33° x 25° / 0.4 m	-	33° x 25° / 0.4 m	
Image size	_	640 x 480 pixels	640 x 480 pixels	_	640 x 480 pixels	
Image presentation		0.000.000				
Image display	3.5" LCD with	1 320 x 240 pixels	3.5'	LCD with 320 x 240 p	pixels	
Display options	IR image only	IR image only / real image only/ IR and real	IR image only / real image only/ IR and real	IR image only	IR image only / real image only/ IR and rea	
N	1.10	image	image	LIOD O O	image	
Video output		USB 2.0		USB 2.0		
Colour palettes	4 options (iron, rainbow, blue-red, shades of grey)		9 options (iron, rainbow, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT)			
Measurement						
Temperature range						
Tomporatare range	-20 °C to +100°C / 0	-20 °C to +100°C / 0 °to +280 °C (switchable)		-20 °C to +100°C / 0 °to +350 °C (switchable)		
High temperature measurement (optional)		-	_		+350 °C to +550 °C	
Accuracy	±2 °C, ±2% of m	v (-20 °C to +280 °C)	±2 °C, ±2% of mv (-20 °C to +350 °C) ±3% of mv (+350 °C to +550 °C)			
Accuracy						
		_				
Minimum measurement spot diameter	10 mm at 1 m (standard lens), 3 mm at 1 m (telephoto lens)		10 mm at 1 m (standard lens), 3 mm at 1 m (telephoto lens)			
Setting emissivity	0,0	01 to 1		0,01 to 1		
Reflected temperature compensation	m	anual		manual		
Imager equipment						
Digital camera	-	yes	yes	-	yes	
Power LEDs		-	-		yes	
Motor focus		-	-		yes	
Standard lens (32° x 23°)		yes		yes		
Telephoto lens (9° x 7°)	-	optional	-		otional	
Laser sighting			yes (lase	r classification 635 nm	ng headset)	
Speech recording Display of surface moisture distribution		_		yes (usi	ng neausely	
	-	yes (using manual input) Standard measurement	-	yes (using	manual input)	
Measuring functions	Centre point	(1-point)	Stan	dard measurement (1-	point)	
	Hot/Cold Si	oot Recognition	Hot/Cold Spot Recognition			
		-	Two-point measurement			
		-	- Isotherms			
		-	-	Min-/M	ax on Area	
Image storage						
File format		on in .bmp, .jpg, .csv	.bmt; export option in .bmp, .jpg, .csv			
Removable memory	SD card 2GB (ap	prox. 1,000 images)	SD car	d 2GB (approx. 1,000	images)	
Power supply	5					
Battery type	0 0	tery can be changed on-site				
Operating time		4 hours		4 hours In instrument/in charging station (optional)		
Charging options Mains operation	In instrument/in charging station (optional)		3 3 11 7			
Mains operation Ambient conditions		yes		yes		
Operating temperature range	-15 °C	to +40 °C		-15 °C to +40 °C		
Storage temperature range	-30 °C to +60 °C		-30 °C to +60 °C			
Air humidity		non-condensing	20% to 80% non-condensing			
Housing protection class		P54	IP54			
Vibration (IEC 68-2-6)	2G		2G			
Physical features						
Weight		ox. 900 g	Approx. 900 g			
Dimensions (L x W x H)		08 x 262 mm	152 x 108 x 262 mm			
Tripod mounting		yes	yes			
Housing		ABS		ABS		
PC software System requirements	Windows XP (Service Pack 2) Windows Vista, interface USB 2.0		Windows XP (Service Pack 2) Windows Vista, interface USB 2.0			
Norms, tests, warranty	interiac	300 2.0				
EU Directive	2004 /	/ 108 / EC	2004 / 108 / EC			
LO DIIOOTIVO			2 years			













