

Thermal imager

testo 865 -Switch on, aim, know more.

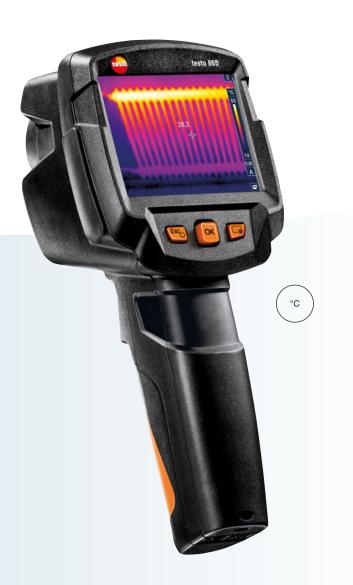
Infrared resolution 160 x 120 pixels with testo SuperResolution technology 320 × 240 pixels

Thermal sensitivity (NETD) of < 0.1 °C (100 mK)

Automatic detection of hot and cold spots

testo ScaleAssist for comparable images in building thermography

IFOV warner for displaying the measurement spot size



The thermal imager testo 865 is the ideal entry into the world of thermography. It impresses with the best image quality in its class and intuitive operation in a modern tile look. The testo 865 fits comfortably in the hand and is robust enough to withstand the rigours of everyday use.

Helpful functions such as IFOV-Warner and Scale Assist ensure even better thermal images. All that combined with an unbeatable price-performance ratio. Switch on, point, know more.



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Ordering data

testo 865

Thermal imager testo 865 with integrated testo SuperResolution technology, USB cable, mains unit, Lithium ion rechargeable battery, pro software (free download), quick-start guide, calibration certificate and case

Order no. 0560 8650



Technical data

Infrared image output		
Infrared resolution	160 x 120 pixels	
Thermal sensitivity (NETD)	<0.1 °C (100 mK)	
Field of view/min.	31° x 23° /	
focusing distance	< 0.5 m	
Geometric resolution (IFOV)	3.4 mrad	
testo SuperResolution	320 x 240 pixels	
(Pixel/IFOV)	2.1 mrad	
Image refresh rate	9 Hz	
Focus	Fixed focus	
Spectral range	7.5 to14 µm	
Image presentation		
Image display	8.9 cm (3.5") TFT, QVGA (320 x 240 pixels)	
Display options	IR image	
Colour palettes	iron, rainbow HC, cold-hot, grey	
Data interfaces		
USB 2.0 Micro B	 ✓ 	
Measurement		
Measuring range	-20 to +280 °C	
Accuracy	±2 °C, ±2 % of measurement value (larger value applies)	
Emissivity /	0.01 to 1 / manual	
reflected temperature		
compensation		
Measurement functions		
Analysis functions	Mean point measurement, hot/cold-spot recognition, Delta T,	
testo ScaleAssist	<i>v</i>	
IFOV warner	 ✓ 	
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Accessories	Order no.	
Spare battery, additional Lithium ion rechargeable battery for extending the operating time.	0554 8721	
Battery charger, desktop charging station for optimizing the charge time.	0554 1103	
Emissivity tape, adhesive tape e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), ε = 0.95, temperature-proof up to +250 °C.	0554 0051	
Holster case	0554 7808	
PC software testo IRSoft for data analysis and reporting	0501 8809	

Imager equipment		
Lens	31° x 23°	
Video streaming	via USB	
Storage as JPG	<i>v</i>	
Fullscreen mode	 ✓ 	
Image storage		
File format	.bmt and .jpg; export options in .bmp, .jpg, .png, .csv, .xls	
Memory	Internal memory (2.8 GB)	
Power supply		
Battery type	Li-ion battery can be changed on-site	
Operating time	4 hours	
Charging options	In instrument/in charging station (optional)	
Mains operation	 ✓ 	
Ambient conditions		
Operating temperature range	-15 to +50 °C	
Storage temperature range	-30 to +60 °C	
Air humidity	20 to 80 %RH, not condensing	
Housing protection class (IEC 60529)	IP54	
Vibration (IEC 60068-2-6)	2G	
Physical features		
Weight	510 g	
Dimensions (LxWxH)	219 x 96 x 95 mm	
Housing	PC - ABS	
PC software		
System requirements	Windows 10, Windows 8.1	
Standards, tests		
EU directive	2014/30/EU	

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