

Technical data, testo 875 and testo 881

	testo 875-1	testo 875-2	testo 881-1	testo 881-3
Infrared image output				
Detector type	FPA 160 x 120 pixels, a.Si		FPA 160 x 120 pixels, a.Si	
Thermal sensitivity (NETD)	100 mK at +30 °C(86°F)		< 80 mK at +30 °C (86°F)	
Field of view/min. focus distance	32° x 23° / 4" (standard lens), 9° x 7° / 20" (telephoto lens)		32° x 23° / 4" (standard lens) 9° x 7° / 20" (telephoto lens)	
Geometric resolution (IFOV)	3.3 mrad (standard lens), 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		manual	manual and motor focus
Spectral range	8 to 14 µm		8 to 14 µm	
Visual				
Optical field/min. focus 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				
Image display	3.5" LCD with 320 x 240 pixels		3.5" LCD with 320 x 240 pixels	
Display options	only IR image	only IR image/ only real image/ IR and real image	only IR image/ only real image/ IR and real image	only IR image/ only real image/ IR and real image
Video output	USB 2.0		USB 2.0	
Color palettes	4 options (ironbow, rainbow, blue/red, greyscale)		9 options (ironbow, rainbow, cold/hot, blue/red, grey, inverted grey, sepia, testo, ironbow HT)	
Measurement				
Temperature range	-4 to 232°F (-20 °C to +100 °C) 32 to 536°F (0 °C to +280 °C), (switchable)		-4 to 232°F (-20 °C to +100 °C/ 32 to 536°F (0 °C to +350 °C (switchable)	
High-temperature measurement (optional)	–		–	+662 °F to +1022 °F
Accuracy	±2 °C, ±2 % of rdg, (-4 °F to +536 °F)		±2 °C, ±2 % of rdg (-4 °F to +536 °F)	
Minimum diameter measurement point	0.4" at 3 ft. (standard lens), 0.12" at 3 ft. (telephoto lens)		0.4" at 3 ft. (standard lens), 0.12" at 3 ft. (telephoto lens)	
Setting emissivity	0.01 to 1		0.01 to 1	
Reflected temperature compensation	manual		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	–	optional
Voice recording	–	–	–	yes (with headset)
Display of surface moisture distribution	–	yes (with manual data input)	–	yes (with manual data input)
Measuring functions	Center point	Standard measurement (1-point)	Standard measurement (1-point)	
	Hot/Cold Spot Indication		Hot/Cold Spot Indication	
	–		Two-point measurement	
	–		Isotherms	
	–		MIN / MAX	
Image storage				
File format	.bmt; export options in .bmp, .jpg, .csv		.bmt; export options in .bmp, .jpg, .csv	
Data storage device	2 GB SD card (approx. 1000 images)		2 GB SD card (approx. 1000 images)	
Power supply				
Battery type	Fast-charging, Li-ion battery can be changed on site		Fast-charging, Li-ion battery can be changed on site	
Operating time	4 hours		4 hours	
Power Supply	In instrument/in charging station (optional)		In instrument/in charging station (optional)	
Ambient conditions				
Operating temperature range	5 °F to +104 °F		5 °F to +104 °F	
Storage temperature range	-22 °F to +140 °F		-22 °F to +140 °F	
Air humidity	20 % to 80 % not condensing		20 % to 80 % not condensing	
Protection class of housing	IP54		IP54	
Vibration (IEC 68-2-6)	2G		2G	
Physical features				
Weight	approx. 2 lbs		approx. 2 lbs	
Dimensions (L x W x H)	6" x 4.2" x 10.3"		6" x 4.2" x 10.3"	
Tripod mounting	Yes		Yes	
Housing	Yes		Yes	
PC software				
System requirements	Windows XP (Service Pack 2), Windows Vista, USB 2.0 interface		Windows XP (Service Pack 2), Windows Vista, USB 2.0 interface	
Norms, tests, warranty				
EU guideline	2004/108/EC		2004/108/EC	
Warranty	2 years		2 years	