

## Technical Data

	875-1i	875-2i	881-1	881-3
<b>Infrared image output</b>				
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	
Focus	manual		manual	manual and motor focus
Spectral range	8 to 14 µm		8 to 14 µm	
<b>Visual</b>				
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
<b>Image presentation</b>				
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 visual image/ IR and visual image	only IR image/ only visual image/ IR and visual image	only IR image/ only visual image/ IR and visual 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)	
<b>Measurement</b>				
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)	
	–		–	±3 % of rdg (+662 °F to +1022 °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	
<b>Imager equipment</b>				
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	
<b>Image storage</b>				
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)	
<b>Power supply</b>				
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)	
	Yes		Yes	
<b>Ambient conditions</b>				
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	
<b>Physical features</b>				
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	ABS		ABS	
<b>PC software</b>				
System requirements	Windows XP (Service Pack 2), Windows Vista, USB 2.0 interface		Windows XP (Service Pack 2), Windows Vista, USB 2.0 interface	
<b>Norms, tests, warranty</b>				
EU guideline	2004/108/EC		2004/108/EC	
Warranty	2 years		2 years	