

	Testo 870 Series		Testo 875i Series			Testo 882 Series	Testo 885 Series			Testo 890 Series			
Model	870-1	870-2	875i-1	875i-2	875i-2 DLX	882	885-1	885-2	885-2 DLX	890-1	890-2	890-2 DLX	
Catalog Number	0560 8701	0560 8702	0563 0875 71	0563 0875 72	0563 0875 73	0560 0882 70	0563 0885 71	0563 0885 72	0563 0885 73	0563 0890 71	0563 0890 72	0563 0890 73	
Warranty	2 years		2 years			2 years	2 years			2 years			
Detector type	160 x 120 FPA Uncooled Microbolometer		160 x 120 FPA Uncooled Microbolometer			320 x 240 FPA UM	320 x 240 FPA Uncooled Microbolometer			640 x 480 FPA Uncooled Microbolometer			
Pixels	19,200		19,200			76,800	76,800			307,200			
SuperResolution (4x pixel upgrade)	320 x 240 - Optional		320 x 240 - Optional	320 x 240 - Optional	320 x 240 - Optional	640 x 480 - Included	640 x 480 - Included			1280 x 960 - Included			
SuperResolution Pixels	76,800		76,800			307,200	307,200			1,228,800 Megapixel			
Thermal sensitivity	100 mK		50 mK	50 mK	50 mK	50 mK	30 mK			40 mK			
NIST Certification	Optional		Optional			Optional	NIST Certification Included			NIST Certification Included			
Visual Camera	NA	Yes 3.1 MP	Included (0.3 MP, 640x480)			Included (0.3 MP)	Included (3.1 MP)			Included (3.1 MP)			
Standard Lens	34° x 26° / 19 inches		32° x 23° / 7" min. focus			32° x 23° / 7" min. focus	30° x 23° / 3.9" Min. focus			42° x 32° / 3.9 Min. focus			
Telephoto Lens 9° x 7° / 20" Min. focus	NA		Optional			NA	NA			NA			
Telephoto Lens 11° x 9° / 19" Min. focus	NA		NA			NA	Optional			NA			
Telephoto Lens 15° x 11° / 19" Min. focus	NA		NA			NA	NA			NA			
Full screen video stream (USB data)	NA		Yes - IRSoft software			Yes - IRSoft software	Yes - IRSoft software			Yes - IRSoft software			
Standard Video	NA		NA			NA	Yes - .mpg, wmv			Yes - along with Radiometric Video			
Radiometric Video / Process Analysis	NA		NA			NA	NA			Full Radiometric Video Included 0554 8902			
Lens Protection Glass	NA		Optional			Yes	Optional			Optional			
IRSoft Analysis & Report software	Included		Included			Included	Included			Included			
Image refresh rate	9 Hz		33 Hz	33 Hz	33 Hz	33 Hz	33 Hz			33 Hz			
Focus mode	Optimized Focus Free		Manual	Manual	Manual	Manual & Motor	Manual / Auto			Manual / Auto			
Image modes	IR Image, Image Gallery	IR Image, Visual Image, Image Gallery	IR Image, Visual Image, Image Gallery			IR Image, Visual Image, Image Gallery	IR Image, Visual Image, Image Gallery			IR Image, Visual Image, Image Gallery			
Spectral range	8 to 14 µm		8 to 14 µm			8 to 14 mm	8 to 14 µm			8 to 14 µm			
Image display	3.5" LCD 320 x 240 pixels		3.5" LCD 320 x 240 pixels			3.5" LCD 320 x 240 pixels	4.3" LCD Touchscreen 480 x 272 pixels			4.3" LCD Touchscreen 480 x 272 pixels			
Menu Operation	1 button joystick		1 button joystick			1 button joystick	1 button joystick or touchscreen interface			1 button joystick or touchscreen interface			
Digital Zoom	NA		NA			NA	1 X to 3 X (LCD only)			1 X to 3 X (LCD only)			
Rotating Display	NA		NA			NA	Yes			Yes			
Rotating Handle	NA		NA			NA	Yes			Yes			
Power LED Lights	NA		NA	Yes (Key config.)		Yes (Key config.)	Yes (in Key configuration)			Yes (in Key configuration)			
TwinPix (Visual & IR Image Blending)	Yes (with integrated camera option or import visual images into IRSoft from any camera source or smart phone)		Yes (with integrated camera option or import visual images into IRSoft from any camera source or smart phone)			Yes (with integrated camera option or import visual images into IRSoft from any camera source or smart phone)	Yes (with integrated camera option or import visual images into IRSoft from any camera source or smart phone)			Yes (with integrated camera option or import visual images into IRSoft from any camera source or smart phone)			
Panoramic Assistant	NA		NA			NA	Included			Included			
Site Recognition (Barcode & Database Solution)	NA		NA			NA	NA	Included			NA	Included	
Temperature range	536°F		662°F			662°F	662°F			662°F			
Temperature Alarm	NA		N/A	1022°F optional		1022°F Optional	Low and High (Bottom and Top)color alarm settings			Low and High (Bottom and Top)color alarm settings			
Extended High Temperature Range	NA		NA	1022°F optional		1022°F Optional	NA	2192°F Optional			NA	2192°F Optional	
Accuracy	±2% of reading		±2% of reading			±2% of reading	±2% of reading			±2% of reading			
Emissivity Correction	0.01 to 1.0		0.01 to 1.0			0.01 to 1.0	0.01 to 1.0			0.01 to 1.0			
Atmosphere Correction / Reflected Temperature Correction	Yes / RTC in Emissivity		Yes / RTC in Emissivity	Yes / Ambient in Humidity, RTC in Emissivity		Yes / Ambient in Humidity, RTC in Emissivity	Yes / Atmosphere correction, RTC in Emissivity	Yes / Atmosphere correction, Ambient in Humidity, RTC in Emissivity			Yes / Atmosphere correction, RTC in Emissivity	Yes / Atmosphere correction, Ambient in Humidity, RTC in Emissivity	
Measurement modes	3 Modes: Center Spot, Hot spot, Cold spot		4 Modes: Center Point, Two-point measurement, Auto Hot-/Cold-Spot-recognition, Solar	6 Modes: Center Point, Two-point measurement, Auto Hot-/Cold-Spot-recognition, Area measurement (Min-/Max-On-Area), Solar, Humidity.		7 Modes: Center Point, 2-point measurement - Auto Cold-/Hotspot, Area measurement (Min/Max & average), Solar, Isotherm, Humidity.	8 Modes: Center Point, 4 Pixel Marking - 2 Auto Hot/Cold + 2 manual spots, Area measurement (Min/Max & average), Isotherm, Solar	9 Modes: Center Point, 4 Pixel Marking - 2 Auto Hot/Cold + 2 manual spots, Area measurement (Min/Max & average), Isotherm, Humidity, Solar			8 Modes: Center Point, 4 Pixel Marking - 2 Auto Hot/Cold + 2 manual spots, Area measurement (Min/Max & average), Isotherm, Solar	9 Modes: Center Point, 4 Pixel Marking - 2 Auto Hot/Cold + 2 manual spots, Area measurement (Min/Max & average), Isotherm, Humidity, Solar	
Color palettes	4 (Iron, Rainbow HC, Grey, Cold-Hot)		10 (Iron, Rainbow, Rainbow HC, Grey, Grey (inverted), Sepia, Blue-Red, Cold-Hot, Testo, Ironbow HT)			10 (Iron, Rainbow, Rainbow HC, Grey, Grey (inverted), Sepia, Blue-Red, Cold-Hot, Testo, Ironbow HT)	9 (Iron, Rainbow, Rainbow HC, Grey, Grey (inverted), Cold-Hot, Blue-Red, Sepia, Testo)	10 (Iron, Rainbow, Rainbow HC, Grey, Grey (inverted), Cold-Hot, Blue-Red, Sepia, Testo, Humidity)			9 (Iron, Rainbow, Rainbow HC, Grey, Grey (inverted), Cold-Hot, Blue-Red, Sepia, Testo)	10 (Iron, Rainbow, Rainbow HC, Grey, Grey (inverted), Cold-Hot, Blue-Red, Sepia, Testo, Humidity)	
Voice Annotation (30 Sec. per image)	NA		NA	Headset Included		Headset Included	NA	Bluetooth Headset Included			NA	Bluetooth Headset Included	
Isotherm Function	NA		NA	Yes		Yes	Yes			Yes			
ISO Certification	Optional		Optional			Optional	Optional			Optional			
Solar mode (Solar Intensity Values)	NA		Yes			Yes	NA	Yes			NA	Yes	
Surface Moisture distribution	NA		NA	Yes		Yes	NA	Yes			NA	Yes	
Humidity measurement with Radio Probe	NA		NA	Optional		Optional	NA	Optional			NA	Optional	
File format	Camera: .bmt, .jpg Software export formats: bmp, jpg, png, xlsx		Camera: .bmt Software export formats: bmp, jpg, png, xlsx			Camera: .bmt Software export formats: bmp, jpg, png, xlsx	Camera: .bmt, .jpg Software export formats: bmp, jpg, png, xlsx			Camera: .bmt, .jpg Software export formats: bmp, jpg, png, xlsx			
Storage device	Internal 1.6 GB		2GB SD Card			2GB SD Card	2GB SD Card			2GB SD Card			
Battery type	Li-ion - 4+ hour run time		Li-ion - 4+ hour run time			Li-ion - 4+ hour run time	Li-ion - 4+ hour run time			Li-ion - 4+ hour run time			
Additional Battery	Optional		Optional	Included		Optional	Optional	Included			Optional	Included	
Battery Charging	Internal		Internal			Internal	Internal			Internal			
External Rapid Charger	Optional		Optional	Included		Optional	Optional	Included			Optional	Included	
Operating temperature range	5°F to 122°F		5°F to 104°F			5°F to 104°F	5°F to 104°F			5°F to 104°F			
Storage Range (IEC 60529)	-22°F to 140°F		-22°F to 140°F			-22°F to 140°F	-22°F to 140°F			-22°F to 140°F			
Vibration (IEC 60068-2-6)	2G		2G			2G	2G			2G			
Weight	1.2 lbs		2 lbs.			2 lbs.	3.5 lbs.			3.5 lbs.			
Dimensions (L x W x H) in inches	8.8 x 3.7 x 3.7		6" x 4.2" x 10.3"			6" x 4.2" x 10.3"	10" x 5.0" x 4.3"			10" x 5.0" x 4.3"			
Imager protection Class	IP 54		IP 54			IP 54	IP 54			IP 54			
Hard travel case	NA	Yes	Yes			Yes	Yes			Yes			
Tripod mounting	NA		Included			Included	Included			Included			
Housing	ABS Plastic		ABS Plastic			ABS Plastic	ABS Plastic			ABS Plastic			
Software System requirements	Windows 8, XP(SP2), Vista, 7 and USB 2.0 Port		Windows 8, XP(SP2), Vista, 7 and USB 2.0 Port			Windows 8, XP(SP2), Vista, 7 and USB 2.0 Port	Windows 8, XP(SP2), Vista, 7 and USB 2.0 Port			Windows 8, XP(SP2), Vista, 7 and USB 2.0 Port			