

	TiS65/TiS60		TiS55/TiS50		TiS45/TiS40		TiS20	TiS10
Key features								
IFOV (spatial resolution)	2.4 mRad		2.8 mRad		3.9 mRad		5.2 mRad	7.8 mRad
Detector resolution	260 x 195		220 x 165		160 x120		120 x 90	80 x 60
Field of view	35.7 ° x 26.8 °							
Distance-to-Spot	417:1		353:1		257:1		193:1	128:1
Wireless connectivity								
Fluke Connect® app compatible	Yes (where available)							
IR-Fusion® technology								
AutoBlend™ mode	5 presets (0%, 25 %, 50 %, 75 %, 100 %)						3 presets (0%, 50%, 100%)	—
Picture-In-Picture (PIP)	5 presets (0%, 25 %, 50%, 75%, 100%)						—	
Focus system	Manual focus, Minimum focus distance, 0.15 m (6 in)	Fixed focus, Minimum focus distance 0.45 m (1.5 ft)	Manual focus, Minimum focus distance, 0.15 m (6 in)	Fixed focus, Minimum focus distance 0.45 m (1.5 ft)	Manual focus, Minimum focus distance, 0.15 m (6 in)	Fixed focus, Minimum focus distance 0.45 m (1.5 ft)		
Ruggedized display	3.5 inch (landscape) 320 x 240 LCD							
Rugged, ergonomic design for one-handed use	Yes							
Thermal sensitivity (NETD)	≤ 0.08 °C at 30 °C target temp (80 mK)				≤ 0.09 °C at 30 °C target temp (90 mK)		≤ 0.10 °C at 30 °C target temp (100 mK)	≤ 0.15 °C at 30 °C target temp (150 mK)
Temperature measurement range (not calibrated below -10 °C)	-20 °C to +550 °C (-4 °F to 1022 °F)		-20 °C to + 450 °C (-4 °F to 842 °F)		-20 °C to +350 °C (-4 °F to 662 °F)			-20 °C to +250 °C (-4 °F to 482 °F)
Level and span	Smooth auto and manual scaling							
Fast auto toggle between manual and automodes	Yes							
Fast auto-rescale in manual mode	Yes							
Minimum span (in manual mode)	2.5 °C							
Minimum span (in auto mode)	5 °C							
Built-in digital camera (visible light)	5MP							
Frame rate	9 Hz or 30 Hz	9 Hz	9 Hz or 30 Hz	9 Hz	9 Hz or 30 Hz	9 Hz		
Laser pointer	Yes					—		
Data storage and image capture								
Extensive SD memory system	Internal 4GB memory and 4GB micro SD card					Internal 4GB memory (optional 4GB micro SD card sold separately)		
Image capture, review, save mechanism	One-handed image capture, review, and save capability							
Image file formats	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); No analysis software required for non-radiometric (.bmp, .jpg) files							
Instant Upload	Upload captured images to Fluke Connect server with the use of a Wifi connection							
Memory review	Thumbnail review							
Software	SmartView® software -full analysis and reporting software and Fluke Connect® (where available)							
Export file formats with SmartView® software	BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF, and TIFF							
Voice annotation	Yes, Bluetooth Headset (sold separately)						—	
IR-PhotoNotes™	Yes (3 images)		Yes (1 image)		—			
Standard video recording	Yes		—					
Radiometric video recording	Yes		—					
Video file formats	Non-radiometric (MPEG - encoded .AVI) and fully radiometric (.IS3)		—					
Battery								
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five-segment LED display to show charge level		One lithium ion smart battery packs with five-segment LED display to show charge level					
Battery life	Four+ hours							
Battery charge time	2.5 hours to full charge							
Battery charging system	Two-bay battery charger or in- imager charging		In-imager charging (optional external charger sold separately)					
AC operation	AC operation with included power supply (100 V AC to 240 V AC, 50/60 Hz)							
Temperature measurement								
Accuracy	± 2 °C or 2% (at 25 °C nominal, whichever is greater)							
On-screen emissivity correction	Yes (both value and table)							
On-screen reflected background temperature compensation	Yes							
On-screen transmission correction	Yes							

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Color palettes					
Standard palettes	8: Ironbow, Blue-Red, High-Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted		7: Ironbow, Blue-Red, High-Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted	6: Ironbow, Blue-Red, High-Contrast, Amber, Hot Metal, Grayscale	3: Ironbow, Blue-Red, Grayscale
Ultra Contrast™ palettes	8: Ironbow Ultra, Blue-Red Ultra, High-Contrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra	—			
General specifications					
Color alarms (temperature alarms)	High temperature, low temperature, Isotherms		High temperature, low temperature	—	
Infrared spectral band	7.5 µm to 14 µm				
Operating temperature	-10 °C to +50 °C (14 °F to 122 °F)				
Storage temperature	-20 °C to +50 °C (-4 °F to 122 °F)				
Relative humidity	10% to 95 %, non-condensing				
Center-point temperature measurement	Yes			—	
Spot temperature	Yes				
User-definable spot markers	3	2	1	—	
Center box	Expandable-contractible measurement box with MIN-MAX-AVG temp			—	
Safety standards	EN 61010-1: CAT none, pollution degree 2, EN 60825-1: Class 2, EN 60529, EN 62133 (lithium battery)				
Electromagnetic compatibility	EN 61326-1:2006, EN 55011: Class A, EN 61000-4-2, EN 61000-4-3				
C Tick	IEC/EN 61326-1				
US FCC	EN61326-1; FCC Part 5, EN 55011: Class A, EN 61000-4-2				
Vibration and Shock	2G, IEC 68-2-6 and 25G, IEC 68-2-29				
Drop	Engineered to withstand 2 meter (6.5 feet) drop				
Size (H x W x L)	26.7 cm x 10.1 cm x 14.5 cm (10.5 in x 4.0 in x 5.7 in)				
Weight (battery included)	Fixed Focus .72 kg (1.6 lb), Manual focus .77 kg (1.7 lb)				
Enclosure rating	IP54 (protected against dust, limited ingress; protection against water spray from all directions)				
Warranty	Two-years (standard), extended warranties are available				
Recommended calibration cycle	Two-years (assumes normal operation and normal aging)				
Supported languages	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish				