

General Specifications Professional Series

FLUKE®

	Ti400	Ti300	Ti200
Temperature			
Temperature measurement range (not calibrated below -10 °C)	-20 °C to +1200 °C	-20 °C to +650 °C	
Temperature measurement accuracy	± 2 °C or 2 % (at 25 °C nominal, whichever is greater)		
On-screen emissivity correction	Yes (by number and table)		
On-screen reflected background temperature compensation	Yes		
On-screen transmission correction	Yes		
Imaging performance			
Image capture frequency	9 Hz refresh rate or 60 Hz refresh rate depending upon model variation		
Detector type	Focal Plane Array, uncooled microbolometer, 320 x 240 pixels	Focal Plane Array, uncooled microbolometer, 240 X 180 pixels	Focal Plane Array, uncooled microbolometer, 200 X 150 pixels
Thermal sensitivity (NETD)	≤ 0.05 °C at 30 °C target temp (50 mK)		
Total pixels	76,800	43,200	30,000
Infrared spectral band	7.5 µm to 14 µm (long wave)		
Visual (visible light) camera	Industrial performance 5.0 megapixel		
Standard infrared lens type			
Field of view	24 ° x 17 °		
Spatial resolution (IFOV)	1.31 mRad	1.75 mRad	2.09 mRad
Minimum focus distance	15 cm		
Optional telephoto infrared lens type, available soon			
Field of view	12 ° x 9 °		
Spatial resolution (IFOV)	0.65 mRad	0.87 mRad	1.05 mRad
Minimum focus distance	45 cm		
Optional wide-angle infrared lens type, available soon			
Field of view	46 ° x 34 °		
Spatial resolution (IFOV)	2.62 mRad	3.49 mRad	4.19 mRad
Minimum focus distance	15 cm		
Focus mechanism			
LaserSharp™ Auto Focus System	Yes		
Advanced Manual Focus	Yes		
Image presentation			
Palettes			
Standard	Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted		
Ultra Contrast™	Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra		
Level and span	Smooth auto-scaling and manual scaling of level and span		
Fast auto toggle between manual and auto modes	Yes		
Fast auto-rescale in manual mode	Yes		
Minimum span (in manual mode)	2.0 °C		
Minimum span (in auto mode)	3.0 °C		
IR-Fusion® information			
Picture-In-Picture (PIP)	Yes		
Full screen infrared	Yes		
AutoBlend™ mode	Yes		
Color alarms (temperature alarms)	High-temperature , low-temperature, and isotherm (user-selectable)		
Image capture and data storage			
Image capture, review, save mechanism	One-handed image capture, review, and save capability		
Storage medium	Micro SD Memory Card, on-board flash memory, save-to-USB capability, direct download via USB-to-PC connection		
File formats	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2) Video*: non-radiometric (MPEG - encoded .AVI) and fully-radiometric (.IS3)		
Export file formats w/SmartView® software	No analysis software required for non-radiometric (.bmp, jpg and .avi) files		
Memory review	BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF, and TIFF		
	Thumbnail view navigation and review selection		
Other time-saving and productivity features			
Voice annotation	60 seconds maximum recording time per image; reviewable playback on imager		
IR-PhotoNotes™	Yes		
Wi-Fi connectivity	Yes, to PC, iPhone®, iPad® and WiFi to LAN*		
Text annotation*	Yes		
Video recording*	Standard and Radiometric		
Streaming Video	Via USB to PC and HDMI to HDMI compatible screen		
CNX™ Wireless System*	Yes*		
Cardinal Compass*	Yes*		
Auto capture (temperature and interval)*	Yes*		
Remote control and operation (for special and advanced applications)	Yes	No	No
General			
Batteries	Two lithium ion rechargeable smart battery packs with five-segment LED display to show charge level, all models		
Battery life	Four+ hours continuous use per battery pack (assumes 50 % brightness of LCD and average usage)		
Size (H x W x L)	27.7 cm x 12.2 cm x 16.7 cm		
Weight (battery included)	1.04 Kg		
Warranty	Two-years (standard), extended warranties are available		

* Coming soon via firmware update. Users notified via SmartView software when available.