

	Expert Series IR Cameras						Professional Series IR Cameras			Performance Series IR Cameras							Visual IR Thermometers		
	TiX1000	TiX660	TiX640	TiX560	TiX520	TiX500	Ti400	Ti300	Ti200	TiS65	TiS60	TiS55	TiS50	TiS45	TiS40	TiS20	TiS10	VT04/VT04A	
IFOV (spatial resolution)	0.6 mRad	0.8 mRad		1.31 mRad					1.75 mRad	2.09 mRad	2.4 mRad		2.8 mRad		3.9 mRad		5.2 mRad	7.8 mRad	—
Distance to spot (D:S) (detection)	1811:1	1187:1		764:1					573:1	477:1	417:1		353:1		257:1		193:1	128:1	Detection—43:1; measurement—9:1
Detector resolution	1024 x 768 (786,432 pixels) Super Resolution mode: 2048 x 1536 (3,145,728 pixels)	640 x 480 (307,200 pixels) Super Resolution mode: 1280 x 960 (1,228,800 pixels)	640 x 480 (307,200 pixels)	320 x 240 (76,800 pixels) Super Resolution mode: 640 x 480 (307,200 pixels)			320 x 240 (76,800 pixels)	240 x 180 (43,200 pixels)	200 x 150 (30,000 pixels)	260 x 195 (50,700 pixels)		220 x 165 (36,300 pixels)		160 x 120 (19,200 pixels)		120 x 90 (10,800 pixels)	80 x 60 (4,800 pixels)	31 x 31 (961 pixels)	
Field of view	32.4° H x 24.7° V	30.9° H x 23.1° V		24° H x 17° V					35.7° H x 26.8° V							28° H x 28° V			
Optional lenses	Capture spectacular images close up or from a distance with optional lenses: 2 wide angle, 2 telephoto, and 3 macro			Optional 2x and 4x telephoto, 25 micron macro, and wide angle pre-calibrated smart lenses available			Optional 2x and 4x telephoto and wide angle pre-calibrated smart lenses available			—									
Wireless connectivity¹	Fluke Connect® app compatible with Fluke Connect® Wi-Fi SD Card ¹			Fluke Connect® app compatible. Wireless connectivity to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and Wi-Fi to LAN ¹															
Focus system	LaserSharp® Auto Focus, autofocus, manual focus, and EverSharp multifocal recording		Autofocus, manual focus, and EverSharp multifocal recording	LaserSharp® Auto Focus with built-in laser distance meter and advanced manual focus					Manual focus	Fixed focus	Manual focus	Fixed focus	Manual focus	Fixed focus			Fixed focus		
IR-Fusion® technology/visible context	IR-Fusion® AutoBlend mode and Picture-in-Picture, continuous blending			IR-Fusion® AutoBlend mode and Picture-in-Picture					IR-Fusion® AutoBlend mode and Picture-in-Picture—5 presets (0%, 25%, 50%, 75%, 100%)					IR-Fusion® AutoBlend mode—3 presets (0%, 50%, 100%)	—	Infrared heat map and visual image blending in 25% increments; center box to outline the temperature measurement area			
Display	Extra-large 5.6 inch color TFT display, 1280 × 800 pixel resolution, suitable for daylight operation			5.7 inch touchscreen LCD, 640 x 480 pixel resolution			3.5 inch touchscreen LCD, 640 x 480 pixel resolution			3.5 inch (landscape) 320 x 240 LCD							2.2 inch portrait standard TFT LCD		
Design	Camcorder with handle, tiltable LCoS color viewfinder display, 800 × 600 pixel resolution		Camcorder	Ergonomic FlexCam design with a 180 degree articulating lens			Rugged, ergonomic design for one-handed use; IP54 rated for protection against dust, limited ingress; and protection against water spray			Rugged, lightweight, ergonomic design for one-handed use							Slim, pocket-sized design		
Thermal sensitivity	≤ 0.05 °C at 30 °C target temp (50 mK)	≤ 0.03 °C at 30 °C target temp (30 mK)		≤ 0.045 °C at 30 °C target temp (45 mK); Filter mode (NETD improvement) ≤ 0.03 °C at 30 °C target temp (30 mK)	≤ 0.05 °C at 30 °C target temp (50 mK); Filter mode (NETD improvement) ≤ 0.04 °C at 30 °C target temp (40 mK)	≤ 0.05 °C at 30 °C target temp (50mK)			≤ 0.075 °C at 30 °C target temp (75mK)	≤ 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)	250 mK		
Temperature measurement range	-40 °C to +1200 °C (-40 °F to 2192 °F) High temperature option: up to 2000 °C (3632 °F)		-40 °C to +1200 °C (-40 °F to 2192 °F)	-20 °C to +1200 °C (-4 °F to +2192 °F)	-20 °C to +850 °C (-4 °F to +1562 °F)	-20 °C to +650 °C (-4 °F to +1202 °F)	-20 °C to +1200 °C (-4 °F to +2192 °F)	-20 °C to +650 °C (-4 °F to +1202 °F)		-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)	-10 °C to +250 °C (+14 °F to +482 °F)		
Frame rate	30 Hz or 9 Hz versions (Subwindowing options available up to 240 fps)	60 Hz or 9 Hz versions (Subwindowing options available up to 240 fps)		60 Hz or 9 Hz versions					9 Hz or 30 Hz versions	9 Hz	9 Hz or 30 Hz versions	9 Hz	9 Hz or 30 Hz versions	9 Hz			8 Hz		
Software	SmartView® software and Fluke Connect® ¹																		
Documentation features	Voice annotation and text annotation			IR-PhotoNotes™, voice annotation, and text annotation				IR-PhotoNotes™ and voice annotation		IR-PhotoNotes™ (3 images), voice annotation—Bluetooth Headset (sold separately)		IR-PhotoNotes™ (1 image), voice annotation—Bluetooth Headset (sold separately)		Voice annotation—Bluetooth Headset (sold separately)			—		
Video recording	Standard and radiometric																		
Streaming video (remote display)	Via HDMI; GigE Ethernet available in SmartView® software			Via USB or Wi-Fi															
Remote control	Yes. Available in 2015			Yes	—		Yes	—											
Alarms	High-temperature, low-temperature, and isotherm												High temperature, low temperature		—	High/low temperature alarms, time-lapse image capture, auto-monitor alarm			
Warranty	Two-years (standard), extended warranties are available																		

¹Within your provider's wireless service area; Fluke Connect® is not available in all countries.