

Compare Fluke thermal imager models

	Expert Series Thermal Imagers				Professional Series Thermal Imagers			Performance Series Thermal Imagers									
	TiX1000	TiX660	TiX640	TiX560	TiX520	Ti400	Ti300	Ti200	TiS65	TiS60	TiS55	TiS50	TiS45	TiS40	TiS20	TiS10	
IFOV (spatial resolution)	0.6 mRad	0.8 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	
Detector resolution	1024 x 768 (786,432 pixels) SuperResolution mode: 2048 x 1536 (3,145,728 pixels)	640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 pixels)	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)	
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								
Distance-to-spot (D:S)	1811:1	1817:1		764:1			573:1	477:1	417:1		353:1		257:1		193:1	128:1	
Optional lenses	Capture spectacular images close up or from a distance with optional lenses: 2 wide angle, 2 telephoto, 3 macro and 1 standard			Optional telephoto and wide angle lenses available				-									
Wireless connectivity	Fluke Connect® app compatible with Fluke Connect® WiFi SD Card ¹			Fluke Connect® app compatible. Wireless connectivity to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN ¹													
Focus System	LaserSharp® Auto Focus, auto focus, manual focus, and EverSharp multifocal recording		Auto focus, manual focus, and EverSharp multifocal recording		LaserSharp® Auto Focus with built-in laser distance meter and advanced manual focus		LaserSharp® Auto Focus with built-in laser distance meter and manual focus		Manual focus	Fixed focus	Manual focus	Fixed focus	Manual 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™	-
Display	Extra-large 5.6 inch color TFT display, 1280 x 800 pixel resolution, suitable for daylight operation			5.7 inch touchscreen LCD, 640 x 480 pixel resolution		Touchscreen capacitive 3.5 inch diagonal landscape color VGA (640 x 480) LCD with backlight			3.5 inch (landscape) 320 x 240 LCD								
Design	Camcorder with handle, Tilttable LCoS color viewfinder display, 800 x 600 pixel resolution		Camcorder		Ergonomic FlexCam design with a 180 degree articulating lens		Rugged, ergonomic design for one-handed use			Rugged, lightweight, ergonomic design for one-handed use							
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 (50 mK)		≤ 0.075 °C at 30 °C target temp (75 mK)	≤ 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	-40 °C to +1200 °C (-40 °F to 2192 °F) High temperature option—request at time of order: 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 +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)	
Frame rate	30 Hz or 9 Hz versions		60 Hz or 9 Hz versions						9 Hz or 30 Hz	9 Hz	9 Hz or 30 Hz	9 Hz	9 Hz or 30 Hz	9 Hz			
Subwindowing modes available: (add-on at time of order—subwindowing options are not available on 9 Hz models)	Option 1: 640 x 480 (60 fps) Option 2: 384 x 288 (120 fps) Option 3: 1024 x 96 (240 fps)		Option 1: 384 x 288 (120 fps) Option 2: 640 x 120 (240 fps)		-												
Software	SmartView® software and Fluke Connect® ¹				SmartView® software, Fluke Connect® ¹ , and SmartView® mobile app—full analysis and reporting software			SmartView® software and Fluke Connect® ¹									
Voice annotation	Yes												-				
Text annotation	Yes						-										
Video recording	Standard and radiometric												-				
Streaming video (remote display)	Via HDMI; GigE Ethernet available in SmartView® software in 2015			Via USB or WiFi									-				
Remote control	Yes. Available in 2015			Yes	-	Yes	-										
Alarms	High temperature, low temperature, and Isotherms												High temperature, low temperature		-		
Warranty	Two-years (standard), extended warranties are available																

¹Fluke Connect® not available in all countries.