

Compare Fluke thermal imager models

	Expert Series Thermal Imagers						Professional Series Thermal Imagers			Performance Series Thermal Imagers												
	TiX1000	TiX660	TiX640	TiX560	TiX520	TiX500	Ti450	Ti400	Ti300	TiS75	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	2.0 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) SuperResolution mode: 640 x 480 (307,200 pixels)						320 x 240 (76,800 pixels)	240 x 180 (43,200 pixels)	320 x 240 (76,800 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)	1765:1	1200:1		753:1						565:1	504:1	409:1		346:1		252:1		189:1	126:1			
Optional lenses	Capture spectacular images close up or from a distance with optional lenses: 2 wide angle, 2 telephoto, 3 macro and 1 standard			Capture spectacular images close up or from a distance with pre-calibrated smart optional lenses: Wide angle, 2x and 4x telephoto, 25 micron macro				Optional 2x and 4x telephoto and wide angle pre-calibrated smart lenses available			-											
Wireless connectivity	Fluke Connect® app compatible. Wireless connectivity to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN¹																					
IR-Fusion™ technology/visible context	AutoBlend™ mode and Picture-in-Picture, continuous blending						AutoBlend™ mode and Picture-in-Picture												AutoBlend™ mode	-		
Focus System	LaserSharp® Auto Focus, auto focus, manual focus, and EverSharp multifocal recording		Auto focus, manual focus, and EverSharp multifocal recording		MultiSharp™ Focus, 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	Manual focus	Fixed focus			
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			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 × 600 pixel resolution		Camcorder		Ergonomic FlexCam design with a 240 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)		≤ 0.05 °C at 30 °C target temp (50 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)			≤ 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 +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)
Frame rate	30 Hz or 9 Hz versions		60 Hz or 9 Hz versions																			
Subwindowing modes available: (add-on at time of order—subwindowing options are not available on 9 Hz models)	Option 1: 640 × 480 (60 fps) Option 2: 384 × 288 (120 fps) Option 3: 1024 × 96 (240 fps)		Option 1: 384 × 288 (120 fps) Option 2: 640 × 120 (240 fps)		-																	
Software	SmartView® software—full analysis and reporting software and Fluke Connect® system¹																					
Voice annotation	60 seconds maximum recording time per image, reviewable playback on camera; Bluetooth headset provided (where available)						60 seconds maximum recording time per image; reviewable playback on camera; optional bluetooth headset available but not required			60 seconds maximum recording time per image, reviewable playback on camera; Bluetooth headset available separately (where available)									-			
Text annotation	Yes																					
Video recording	Standard and radiometric																					
Streaming video (remote display)	Via HDMI; GigE Ethernet available in SmartView® software			Yes, see the live stream of the camera display on your PC, smartphone, or TV monitor. Via USB, WiFi hotspot, or WiFi network to SmartView® software on a PC; via WiFi hotspot to the Fluke Connect® app on a smartphone; or via HDMI to a TV monitor						Yes, to SmartView® software on a PC or to the Fluke Connect® app on a smartphone									-			
Remote control operation	Yes		Yes, through SmartView® software or Fluke Connect® mobile app¹		-			Yes, through SmartView® software or Fluke Connect® mobile app¹			-											
Alarms	High temperature, low temperature, and isotherms (within range)															High temperature, low temperature		-				
Warranty	Two-years (standard), extended warranties are available																					

¹Fluke Connect® not available in all countries.