

Compare Fluke thermal imager models

	Expert Series Thermal Imagers							Professional Series Thermal Imagers				Performance Series Thermal Imagers						
	TiX1000	TiX660	TiX640	TiX620	TiX580	TiX560	TiX520	TiX500	Ti480	Ti450	Ti400	Ti300	TiS75	TiS65/60	TiS55/50	TiS45/40	TiS20	TiS10
IFOV (spatial resolution)	0.6 mRad	0.8 mRad	0.8 mRad	0.85 mRad	0.93 mRad	1.31 mRad		0.93 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) SuperResolution mode: 1280 x 960 (1,228,800 pixels)	640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 pixels)	640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 pixels)	320 x 240 (76,800 pixels) SuperResolution mode: 640 x 480 (307,200 pixels)		640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 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)	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		32.7° H x 24.0° V	34° H x 24° V	24° H x 17° V		34° H x 24° V	24° H x 17° V		35.7° H x 26.8° V							
Optional lenses	2 wide angle, 2 telephoto, 3 macro and 1 standard			1 wide angle and 1 telephoto	Pre-calibrated smart optional lenses: wide angle, 2x telephoto	Pre-calibrated smart optional lenses: wide angle, 2x and 4x telephoto, 25 micron macro		Pre-calibrated smart optional lenses: wide angle, 2x telephoto	Pre-calibrated smart optional lenses: 2x and 4x telephoto, wide angle		-							
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 LAN*										
IR-Fusion®	AutoBlend™ mode, continuous blending					AutoBlend™ mode						5 presets (0 %, 25 %, 50 %, 75 %, 100 %)			3 presets (0 %, 50 %, 100 %)	-		
Picture-in-Picture (PIP)	Picture-in-Picture																	
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 advanced manual focus		Manual focus	Manual focus (TiS65), Fixed focus (TiS60)	Manual focus (TiS55), Fixed focus (TiS50)	Manual focus (TiS45), Fixed focus (TiS40)	Fixed focus		
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				3.5 inch touchscreen LCD, 640 x 480 pixel resolution				3.5 inch (landscape) 320 x 240 LCD						
Design	Camcorder with handle, Tiltable LCoS color viewfinder display, 800 x 600 pixel resolution		Camcorder		Ergonomic FlexCam design with a 240 degree rotating 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)		≤ 0.04 °C at 30 °C target temp (40 mK)	≤ 0.05 °C at 30 °C target temp (50 mK)	≤ 0.03 °C at 30 °C target temp (30 mK)	≤ 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)	≤ 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 +600 °C (-40 °F to +1112 °F) High temperature option—request at time of order: up to 2000 °C (3632 °F)	-20 °C to +800 °C (-4 °F to +1472 °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 +800 °C (-4 °F to 1472 °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 +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		30 Hz or 9 Hz versions	60 Hz or 9 Hz versions				30 Hz or 9 Hz versions		30 Hz or 9 Hz versions	30 Hz or 9 Hz versions (TiS65), 9 Hz (TiS60)	30 Hz or 9 Hz versions (TiS55), 9 Hz (TiS50)	30 Hz or 9 Hz versions (TiS45), 9 Hz (TiS40)	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)		384 x 288 (60 fps)	-				-		-							
Software	Fluke Connect® (web, mobile and SmartView® desktop)																	
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 Fluke Connect® 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 Fluke Connect® SmartView® desktop software or mobile app				-				
Remote control operation	Yes				Yes, through Fluke Connect® SmartView® desktop software or mobile app		-		Yes, through Fluke Connect® SmartView® desktop software or mobile app		-							
Alarms	High temperature, low temperature, and isotherms (within range)														High temperature, low temperature		-	
Warranty	Two-years (standard), extended warranties are available																	

Fluke Connect® not available in all countries.
* Best possible