

Choose the right tool for the job.

EXPERT SERIES	PROFESSIONAL SERIES	PERFORMANCE SERIES
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Engineers, R&D professionals and advanced thermographers who require premium image quality and an unsurpassed level of detail in every infrared image.

Professional in-house, contract and service thermographers who need quality images and advanced features and specifications for use in multiple applications.

Technicians and contractors who need quality images and feature rich affordability for quick scans and/or intermittent inspections.

Where used

- Industrial maintenance
- Oil and gas predictive maintenance
- Power generation/transmission
- Research and development
 - Electrical
 - Mechanical
 - Biology/sciences
- Quality control
- Plus the industries included under the professional and performance series

- Industrial maintenance
- Heavy commercial facility maintenance
- Oil and gas maintenance
- Veterinary
- Reliability inspections (PdM)
- Heavy building diagnostics
 - Building envelope
 - Construction defects
- Electrical, water, gas utilities
- Chemical processing
- Machinery, instrumentation and appliances
- Plus the industries included under the performance series

- Electrical inspections
- HVAC/R inspections
- Mechanical
- Residential home inspections
- Light commercial maintenance
 - Building diagnostics
 - Building envelope
 - Commercial/industrial facilities



	TiX1000 \$54,995	TiX660 \$39,995	TiX640 \$29,995	TiX620 \$21,995	TiX580 \$16,995	TiX560 \$14,499	TiX520 \$11,999	TiX500 \$9,999	Ti480 \$13,999	Ti450 \$8,499	Ti400 \$7,999	Ti300 \$6,999	TiS75 \$4,699	TiS65/60 \$4,299/\$3,999	TiS55/50 \$3,899/\$3,599	TiS45/40 \$3,299/\$2,999	TiS20 \$1,699	TiS10 \$1,299
Detector resolution	1024 x 768, 2048 x 1536 SuperRes.	640 x 480, 1280 x 960 SuperRes.	640 x 480, 1280 x 960 SuperRes.	640 x 480, 1280 x 960 SuperRes.	640 x 480, 1280 x 960 SuperRes.	320 x 240, 640 x 480 SuperRes.	320 x 240, 640 x 480 SuperRes.	320 x 240, 640 x 480 SuperRes.	640 x 480, 1280 x 960 SuperRes.	320 x 240, 640 x 480 SuperRes.	320 x 240	240 x 180	320 x 240	260 x 195	220 x 165	160 x 120	120 x 90	80 x 60
Spatial resolution	0.6 mRad	0.8 mRad	0.8 mRad	0.85 mRad	0.93 mRad	1.31 mRad	1.31 mRad	1.31 mRad	0.93 mRad	1.31 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
Field of view	32.4° x 24.7°	30.9° x 23.1°	30.9° x 23.1°	32.7° x 24.0°	34° x 24°	24° x 17°	24° x 17°	24° x 17°	34° x 24°	24° x 17°	24° x 17°	24° x 17°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°
Distance to spot	1765:1	1200:1	1200:1	1100:1	1065:1	753:1	753:1	753:1	1065:1	753:1	753:1	565:1	504:1	409:1	346:1	252:1	189:1	126:1
Thermal sensitivity*	50 mK	30 mK	30 mK	40 mK	50 mK	30 mK	40 mK	50 mK	50 mK	30 mK	50 mK	50 mK	80 mK	80 mK	80 mK	90 mK	100 mK	150 mK
Temperature range	-40 °C to +1200 °C (-40 °F to +2192 °F) ¹	-40 °C to +1200 °C (-40 °F to +2192 °F) ¹	-40 °C to +1200 °C (-40 °F to +2192 °F)	-40 °C to +600 °C (-40 °F to +1112 °F) ¹	-20 °C to +800 °C (-4 °F to +1472 °F) ¹	-20 °C to +1200 °C (-4 °F to +2192 °F) ¹	-20 °C to +850 °C (-4 °F to +1562 °F) ¹	-20 °C to +650 °C (-4 °F to +1202 °F) ¹	≤ -20 °C to +800 °C (-4 °F to 1472 °F) ¹	-20 °C to +1200 °C (-4 °F to +2192 °F) ¹	-20 °C to +1200 °C (-4 °F to +2192 °F) ¹	-20 °C to +650 °C (-4 °F to +1202 °F) ¹	-20 °C to +550 °C (-4 °F to +1022 °F) ¹	-20 °C to +550 °C (-4 °F to +1022 °F) ¹	-20 °C to +450 °C (-4 °F to +842 °F) ¹	-20 °C to +350 °C (-4 °F to +662 °F) ¹	20 °C to +350 °C (-4 °F to +662 °F) ¹	-20 °C to +250 °C (-4 °F to +482 °F) ¹
Focus systems	LS, AF, AMF, ES	LS, AF, AMF, ES	AF, AMF, ES	AF, AMF, ES	MSF, LS, AMF	MSF, LS, AMF	MSF, LS, AMF	MSF, LS, AMF	MSF, LS, AMF	MSF, LS, AMF	LS, AMF	LS, AMF	MF	MF (TiS65), FF (TiS60)	MF (TiS55), FF (TiS50)	MF (TiS45), FF (TiS40)	FF	FF
Laser distance meter	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
Image enhancement	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF	-
Annotation	VA, TA	VA, TA	VA, TA	VA, TA	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA	IRPN, VA	IRPN, VA	VA	-	-
Standard video rec.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-
Radiometric video rec.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-
Optional lenses	7	7	7	2	4	4	4	4	3	3	3	3	-	-	-	-	-	-

AF: Auto focus | AMF: Advanced manual focus | ES: EverSharp multifocal recording | FF: Fixed Focus | IRF: IR Fusion® Auto Blend | IRPN: IR-PhotoNotes™ | LS: LaserSharp® Auto Focus System
 MF: Manual focus | MSF: MultiSharp™ Focus | PIP: Picture-in-Picture | SR: SuperResolution | TA: Text Annotation | VA: Voice Annotation

*Best possible

Prices shown are in US dollars

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
I FOV (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	7.8mRad
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)	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 ¹										
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											5 presets (0 %, 25 %, 50 %, 75 %, 100 %)				-		
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, Tilttable LCoS color viewfinder display, 800 × 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 (TiS65), 9 Hz (TiS60)	30 Hz or 9 Hz versions (TiS55), 9 Hz (TiS50)	330 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 × 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)		384 × 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																	

*Best possible

¹Fluke Connect® not available in all countries.