

Choose the right tool for the job.

EXPERT SERIES

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

PROFESSIONAL SERIES

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

PERFORMANCE SERIES

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

Where used

- Industrial maintenance
- Generation/transmission
- Oil and gas predictive maintenance
- 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
- Heavy building diagnostics
 - Building envelope
 - Construction defects
- Electrical, water, gas utilities
- Machinery, instrumentation and appliances
- Plus the industries included under the performance series

- Electrical inspections
- HVACR inspections
- Mechanical
- Residential home inspections

- Light commercial maintenance
- Building diagnostics
 - Building envelope
 - Commercial/industrial facilities



	TiX560	TiX520	TiX500	Ti400	Ti300	Ti200	TiS75	TiS65	TiS60	TiS55	TiS50	TiS45	TiS40	TiS20	TiS10
Detector resolution	320 x 240, 640 x 480 Super Res.	320 x 240, 640 x 480 Super Res.	320 x 240, 640 x 480 Super Res.	320 x 240	240 x 180	200 x 150	320 x 240	260 x 195	260 x 195	220 x 165	220 x 165	160 x 120	160 x 120	120 x 90	80 x 60
Spatial resolution	1.31 mRad	1.31 mRad	1.31 mRad	1.31 mRad	1.75 mRad	2.09 mRad	2.0 mRad	2.4 mRad	2.4 mRad	2.8 mRad	2.8 mRad	3.9 mRad	3.9 mRad	5.2 mRad	7.8 mRad
Field of view	24° x 17°	24° x 17°	24° x 17°	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°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°
Distance to Spot	753:1	753:1	753:1	753:1	565:1	470:1	504:1	409:1	409:1	346:1	346:1	252:1	252:1	189:1	126:1
Thermal sensitivity	50 mK	50 mK	50 mK	50 mK	50 mK	75 mK	80 mK	80 mK	80 mK	80 mK	80 mK	90 mK	90 mK	100 mK	150 mK
Temperature range	-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 +650 °C (-4 °F to +1202 °F)	-20 °C to +550 °C (-4 °F to 1022 °F)	-20 °C to +550 °C (-4 °F to 1022 °F)	-20 °C to +550 °C (-4 °F to 1022 °F)	-20 °C to +450 °C (-4 °F to 842 °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 +350 °C (-4 °F to 662 °F)	-20 °C to +250 °C (-4 °F to 482 °F)
Focus systems	LS, AMF	LS, AMF	LS, AMF	LS, AMF	LS, AMF	LS, AMF	MF	MF	FF	MF	FF	MF	FF	FF	FF
Laser distance meter	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—
Image enhancement	IRF, SR, IS	IRF, SR	IRF, SR	IRF	IRF	IRF	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF	—
Annotation	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA, TA	IRPN, VA	IRPN, VA	IRPN, VA	IRPN, VA	IRPN, VA	IRPN, VA	IRPN, VA	VA	VA	—	—
Standard video rec.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—
Radiometric video rec.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—
Optional lenses	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—

AMF: Advanced manual focus | FF: Fixed Focus | IRF: IR Fusion® Auto Blend | IRPN: IR-PhotoNotes™ | IS: Image Sharpening | LS: LaserSharp® Auto Focus System | MF: Manual focus | SR: SuperResolution | TA: Text Annotation | VA: Voice Annotation | PIP: Picture-in-Picture

Compare Fluke thermal imager models

	Expert Series Thermal Imagers			Professional Series Thermal Imagers			Performance Series Thermal Imagers									
	TiX560	TiX520	TiX500	Ti400	Ti300	Ti200	TiS75	TiS65	TiS60	TiS55	TiS50	TiS45	TiS40	TiS20	TiS10	
I FOV (spatial resolution)	1.31 mRad				1.75 mRad	2.09 mRad	2.0 mRad	2.4 mRad			2.8 mRad		3.9 mRad		5.2 mRad	7.8 mRad
Detector resolution	320 x 240 (76,800 pixels) SuperResolution mode: 640 x 480 (307,000 pixels)			320 x 240 (76,800 pixels)	240 x 180 (43,200 pixels)	200 x 150 (30,000 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	24° H x 17° V						35.7° H x 26.8° V									
Optional lenses	Capture spectacular images close up or from a distance with optional lenses: Wide angle, 2x and 4x telephoto, 25 macro micron			Optional telephoto and wide angle 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 LAN ¹															
Focus system	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				
IR-Fusion®	IR-Fusion® AutoBlend™ mode, continuous blending	IR-Fusion® 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%)			—						
Display	5.7 inch touchscreen LCD, 640 x 480 pixel resolution			3.5 inch touchscreen LCD, 640 x 480 pixel resolution			3.5 in (landscape) 320 x 240 LCD									
Design	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	≤ 0.045 °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	-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	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			
Software	SmartView® software and Fluke Connect® ¹															
Voice annotation	Yes														—	
Text annotation	Yes			—												
Video recording	Standard and radiometric														—	
Streaming video (remote display)	Via HDMI or WiFi to SmartView® software			Via USB or WiFi												—
Remote control	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.

