

Fluke Infrared Camera Selection Guide



	PTi120	TiS20+/ Ti20+ MAX	TiS55+	TiS60+	TiS75+	Ti300U	Ti401U	Ti480U	TiX501	TiX580	TiX875	TiX885	TiX1060
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Key Features																
Infrared Resolution	120 × 90 (10,800 pixels)		256 × 192 (49,152 pixels)		320 × 240 (76,800 pixels)		384 × 288 (110,592 pixels)		384 × 288 (110,592 pixels)		640 × 480 (307,200 pixels)			1024 × 768 (786,432 pixels)		
SuperResolution	-							Yes, in software	-	Yes, in software	-	Yes, in software	Yes, in software			
Temperature Range	-20° C to 400° C (150° C for TiS20+)		-20° C to 550° C		-20° C to 400° C		-20° C to 550° C		-20° C to 650° C		-20° C to 1,200° C	-20° C to 650° C	-20° C to 1,000° C	-40° C to 700° C	-40° C to 1200° C	-40° C to 2000° C
IFOV with Standard Lens (spatial resolution)	7.6 mrad, D:S 130:1		1.91 mrad	1.86 mrad, D:S 532:1		1.91 mrad	1.14 mrad	0.68 mrad		0.93 mrad		0.68 mrad		0.43 mrad		
Thermal Sensitivity	60mK		40mK	45mK	40mK	75mK		50mK	50mK		30mK	25mK	30mK			
Field of View	50° H × 38° V		28° H × 20° V		34.1° H × 25.6° V		42° H × 30° V		25° H × 19° V			34° H × 24° V		25° H × 19° V		
Minimum Focus Distance	50 cm		50 cm	46 cm	50 cm	10 cm	25 cm		15 cm	50 cm	20 cm		50 cm			
Global Positioning Data	-											Yes, included in image when outdoors				
Focusing Technology	Fixed Focus		Advanced Manual Focus	Fixed Focus	Advanced Manual Focus	Ultrafocus & Advanced Manual Focus			LaserSharp & Advanced Manual Focus		Automatic & Advanced Manual Focus					
Laser Distance Meter	-					Yes, calculates distance to the target for precisely focused images and displays distance on screen										
Wireless Connectivity	Yes, to PC, iPhone™ and iPad™ (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN (where available)											Bluetooth				
Fluke Connect™ App Compatible	Yes*, connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect™ app for saving and sharing					No, SmartViewIR PC application available			Yes		No, SmartViewIR PC application available					
IR-Fusion Technology	AutoBlend continuous 0% to 100%. Adds the context of the visible details to your infrared image															
Image Frame Rate	9Hz	9Hz	27Hz	9/30Hz	27Hz	30Hz			9/60Hz		30Hz					
Digital Zoom	-					1-4x	1-10x	1-10x	1-8x		1-25x	1-35x	1-35x			
Battery Life	≥ 2 hours continuous (without WiFi)	≥ 5 hours continuous (without WiFi)	3.5 hours continuous (without Wifi)	4 hours continuous use per battery pack	3.5 hours continuous (without Wifi)	2-3 hours continuous use per battery pack					≥ 3.5 hours continuous (without Wifi)					
Warranty	Two years (standard)															

Fluke Infrared Camera Applications

Industrial, commercial and building use			
Products	Handheld fixed/manual focus thermal cameras PTi120, TiS20+, TiS20+ MAX, TiS55+, TiS60+, TiS75+	Handheld auto/manual focus thermal cameras Ti300U, Ti401U, Ti480U	Articulating thermal cameras TiX501, TiX580, TiX875, TiX885, TiX1060
Description	Easy to use, feature rich cameras with standard performance and good image quality for everyday use	Quality images for advanced inspection and troubleshooting	Premium image quality with high resolution (up to 1024 x 768) and best thermal sensitivity
Applications	<ul style="list-style-type: none"> • Electrical inspections • HVAC/R inspections • Mechanical • Residential home inspections • Light commercial maintenance • DIY 	<ul style="list-style-type: none"> • Industrial maintenance • Heavy commercial facility maintenance • Mining maintenance • Oil and gas maintenance • Reliability inspections • Heavy building diagnostics <ul style="list-style-type: none"> - Building envelope - Construction defects • Electrical, water, gas utilities 	<p>The most detailed and challenging inspections/targets</p> <ul style="list-style-type: none"> • Industrial maintenance • Generation/transmission • Oil and gas predictive maintenance • Research and development (electrical, mechanical, biology/sciences, microelectronics) • Mining operations • Building Energy Loss Audits • Electrical and Gas transmission line surveying
Perfect for	Technicians and contractors who need quality images and feature rich affordability for quick scans and/or intermittent inspections.	Professional in-house, contract and service thermographers who need quality images and advanced features and specifications for use in multiple applications.	Engineers, R&D professionals and advanced thermographers who require premium image quality and an unsurpassed level of detail in every infrared image.
Fluke innovations	<ul style="list-style-type: none"> • Wireless connectivity with the Fluke Connect® app • IR-Fusion® AutoBlend, Picture-in-Picture • Fluke Connect® SmartView® Software 	<ul style="list-style-type: none"> • Laser assisted auto focus • Contrast auto focus • Continuous auto focus • Built-in laser distance meter • AutoBlend, Picture-in-Picture • SmartView IR Software 	<ul style="list-style-type: none"> • Up to 786,432 sensors (TiX1060) • SuperResolution mode, upto 2048 x 1536 resolution (TiX1060) • A full 180° articulating lens • Largest 5.7 inch tablet like screen • Automatic motorised focusing - MultiSharp™, LaserSharp® and Auto Focus • Built-in laser distance meter • Up to 35 x digital zoom (TiX885 and TiX1060)
Key features	<ul style="list-style-type: none"> • Good image quality • Save and share measurements from the field with your team anytime, from anywhere • Asset Tagging for automatic image sorting • Color alarms • Easy to use, point and shoot or manual focus options • Large 3.5 inch LCD • Streaming video • Field replaceable, easy release battery with charge indicator to prevent unexpected power loss • Rugged, ergonomic design • Fully radiometric • Windows based navigation menu 	<ul style="list-style-type: none"> • Excellent image quality • High temperature measurement (up to 1200 °C) (Ti480U) • High frame rate 30Hz • Save and share measurements from the field with your team anytime, from anywhere • Expandable SD cards up to 128 GB • Large 3.5 inch touchscreen LCD • Fully radiometric video recording • Optional 2x and 4x telephoto and wide-angle lenses (coming soon) • Remote display and operation via software on Ti480U, remote operation on Ti300u • Up to 10x digital zoom (Ti480U and Ti401U) 	<ul style="list-style-type: none"> • Premium image quality • Best in class temperature sensitivity, 25 mK (TiX885) • High temperature measurement, up to 2000 °C (TiX1060) • Cold temperature measurement, down to -40 °C • Fastest, highest performance, frame rate up to 60 Hz • Save and share measurements from the field with your team anytime, from anywhere • Instantly capture an in-focus image with the touch of a button • Infinite storage capability due to interchangeable SD cards-eachholds thousands of images • Built-in voice recording and annotation • Streaming video • Optional 2x and 4x telephoto, wide angle and macro lenses* • PC based advanced analysis software available • Field replaceable, easy release battery with charge indicator to prevent unexpected power loss, greater than 3.5 hours per battery