

Fluke Infrared Camera Selection Guide



	TC01A/ TC01B/ TC01C	PTi120	TiS20+ MAX	TiS55+	TiS60+	TiS75+	TiS55 Pro	TiS65 Pro	TiS75 Pro	
	Diagnostics			Performance Plus			Performance Pro			
Recommended Industries	ALL			HVAC/ Electrical Switchboard Inspection	Electrical Switchboard Inspection	Electrical/ HVAC/ Building Inspection	HVAC/ Electrical Switchboard Inspection	Electrical Switchboard Inspection	Electrical/ HVAC/ Building Inspection	
Infrared Resolution	256 × 192 (49,152 pixels)	120 × 90 (10,800 pixels)		256 × 192 (49,152 pixels)	320 × 240 (76,800 pixels)	384 × 288 (110,592 pixels)	288 × 216 (62,208 pixels)	320 × 240 (76,800 pixels)	384 × 288 (110,592 pixels)	
SuperResolution	-						576 × 432 (248,832 pixels)	640 × 480 (307,200 pixels)	768 × 576 (442,368 pixels)	
Temperature Range	-10° C to 550° C (TC01A) -20° C to 550° C (TC01B/ TC01C)	-20° C to 400° C		-20° C to 550° C	-20° C to 400° C	-20° C to 550° C		-20° C to 600° C	-20° C to 650° C	
IFOV with Standard Lens (spatial resolution)	3.81 mRad	7.6 mRad, D:S 130:1		1.91 mRad	1.86 mRad, D:S 532:1	1.91 mRad	2.50 mRad	42°: 2.29 mRad 25°: 1.36mRad	42°: 1.91 mRad 25°: 1.14mRad	
Thermal Sensitivity	50 mK	60mK		40mK	45mK	40mK				
Field of View	56° H × 42° V	50° H × 38° V		28° H × 20° V	34.1° H × 25.6° V	42° H × 30° V	42° H × 32° V	42° H × 32° V/ 25° H × 19° V		
Minimum Focus Distance	25 cm	50 cm			46 cm	50 cm	10 cm	42°: 10 cm 25°: 15 cm		
Video Recording & Formats	Yes	No				Yes				
Focusing Technology	-	Fixed Focus		Manual Focus	Fixed Focus	Manual Focus	Auto/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)									
Included free software	iSee App	Fluke Connect® & SmartView® Classic					Fluke Connect® Express			
IR-Fusion Technology	-	AutoBlend continuous 0% to 100%. Adds the context of the visible details to your infrared image								
Lens type available	-						Standard (42° x 32°)	Standard (42° x 32°)/ Tele (25° x 19°)		
Image Frame Rate	25Hz	9Hz		27Hz	9/30Hz	27Hz	9Hz			
Digital Zoom	-								1-4x	
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)	≥ 5 hours continuous (without WiFi)			
Warranty	Two years (standard)									

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	Ti300+	Ti300U	Ti401 PRO	Ti401U	Ti480 PRO	Ti480U	TiX501	TiX580	TiX875	TiX885	TiX1060	
	Professional						Expert					
Recommended Industries	Electrical/ HVAC/Building Inspection	Electrical/ HVAC/Building Inspection	Manufacturing/Electrical/Utilities/Mining/Oil & Gas/Research & Development/Transportation/Data Centres/Renewables									
Infrared Resolution	320 × 240 (76,800 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	
Temperature Range	-20° C to 650° C				-20° C to 1000° C		-20° C to 1,200° C		-20° C to 650° C		-20° C to 1,000° C	
IFOV with Standard Lens (spatial resolution)	1.85 mRad, D:S 532:1	1.14 mRad	0.93 mRad, D:S 1065:1	0.68 mRad	0.93 mRad, D:S 1065:1	0.68 mRad	0.93 mRad		0.68 mRad		0.43 mRad	
Thermal Sensitivity	75mK				50mK				30mK	25mK	30mK	
Field of View	34° H × 24° V	25° H × 19° V	34° H × 24° V	25° H × 19° V	34° H × 24° V	25° H × 19° V	34° H × 24° V		25° H × 19° V			
Minimum Focus Distance	15 cm	10 cm	15 cm	25 cm	15 cm	25 cm	15 cm		20 cm		50 cm	
Video Recording & Formats	No	Yes	No			Yes						
Focusing Technology	Auto/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			
Included free software	Fluke Connect® & SmartView® Classic	SmartView® IR & Fluke Connect® Express	Fluke Connect® & SmartView® Classic	SmartView® IR & Fluke Connect® Express	Fluke Connect® & SmartView® Classic	SmartView® IR & Fluke Connect® Express	Fluke Connect® & SmartView® Classic		SmartView® IR & Fluke Connect® Express			
IR-Fusion Technology	AutoBlend continuous 0% to 100%. Adds the context of the visible details to your infrared image											
Lens type available	2xTele/4xTele Wide/Macro †	2xTele/ 4xTele/Wide	2xTele/4xTele Wide/Macro †	4xTele/Wide	2xTele/4xTele Wide/Macro †	4xTele/Wide	2xTele/4xTele/Wide/Macro †		2xTele/4xTele/2xWide/ 50UM/25UM		2xTele/4xTele/ Wide/Micro	
Image Frame Rate	9/60Hz	30Hz	9/60Hz	30Hz	9/60Hz	30Hz	9/60Hz		30Hz		13Hz	
Digital Zoom	-	1-4x	-	1-10x	2x & 4x	1-10x	1-8x		1-25x	1-35x		
Battery Life	2-3 hours continuous use per battery pack								≥ 3.5 hours continuous (without Wifi)			
Warranty	Two years (standard)											

†The lenses for Ti300+, Ti401PRO, Ti480PRO, and TiX500 series are smart lenses. They come pre-calibrated and don't require calibration to a specific camera, so they are interchangeable between compatible cameras.