

TECHNICAL DATA

TiS75, TiS65, TiS60, TiS55, TiS50, TiS45, TiS40, TiS20 and TiS10 Infrared Cameras

The Fluke Performance Series



GOOD IMAGE QUALIT WITH UP TO 320 X 240 RESOLUTION

FIELD OF VIEW

RESOLUTION

35.7°H x 26.8°V **TiS75** 320 x 240

D:S 504:1 TiS65/60

260 x 195 D:S 409:1

TiS55/50 220 x 165 D:S 34621

TIS45/40 160 x 120 D;S 252:1

TIS20 120 x 90 D;\$ 189:1

TIS10 80 x 60 D:S 126:1

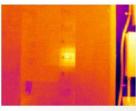


Fluke Connect® compatible

Rugged. Accurate. Built to perform.

- Save time wirelessly sync images directly from your camera to the Fluke Connect. system, and attach to an asset record or work order. Having access to maintenance records simultaneously at the inspection site and from the office or an off-site location enables faster decision making and real time collaboration between team members
- Get the context of the visual and infrared details all in one precisely blended or picture-in-picture image with IR-Fusion * technology
- Get precisely focused images from as close as 15 cm (6 in) with manual focus, or choose fixed focus for faster images without the need to focus from 45 cm (1.5 ft) and beyond
- Monitor your battery charge and avoid an unexpected loss of power with the smart battery with LED charge indicator
- Get easy access to saved images with a removable SD card
- Digitally document critical information such as the location of the equipment or the motor nameplate with the infrared image using IR-PhotoNotes™ or voice annotation*

See the problem and location in one image with IR-Fusion* technology.



Full infrared



50% blending, picture-inpicture mode



50% blending

*Varies by model





Detailed specifications

								$\mathcal{C}_{-}(\mathcal{O})$				
	TiS75	TiS65	TiS60	TiS55	TiS50	TiS45	TiS40	TiS20	TiS10			
Key features	0.0 Po-d	20-P-1										
IFOV (spatial resolution) Detector resolution	2.0 mRad 320 x 240	40 260 v 195 (50 700 pivels)		2.8 mRad 220 x 165 (36,300 pixels)		3.9 mRad 160 x 120 (19,200 pixels)		5.2 mRad (20 x 90	7.8 mRad 80 x 60			
Field of view	(76,800 pixels)				35.7 °H x 26.8 °V	7		(10,800 pixels)	(4,800 pixels			
Distance to spot	504:1	40	9:1	34		25	2:1	189:1	126:1			
Focus system	Manual focus, i distance 15		Fixed focus, minimum focus distance 45 cm (~18 in)		Fixed focus, minimum focus distance 45 cm (~18 in)	Manual focus, minimum focus distance 15 cm (~6 in)		us, minimum focu 45 cm (~18 in)	s distance			
Wireless connectivity	Yes, to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN (where available)											
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											
Fluke Connect® Assets optional software		-		electrical or in	nfrared images-	npare measurement n one location	7					
Fluke Connect® Instant Upload	Yes*, connect your camera to your building's WiFi network, and images taken automatically upload to the Fluke Connect® system for viewing on your smartphone or PC											
Fluke Connect® tool compatible	Yes*, connects wirelessly to select Fluke Connect® enabled tools and distribuys measurements on camera screen. Five simultaneous connections supported											
IR-Fusion® technology			Yes, adds the co	ontext of the visib	ole details to you	rinfrared image			-			
AutoBlend™ mode	100 %, 75 %, 50 %, 25 % IR plus full visible on camera; continuously variable in software 50 % IR and full visible on camera; continuously variable in software on camera; continuously variable in								100 % IR and full visible on camera; continuously variable in software			
Picture-In-Picture (PIP)			Not available o tinuously varia									
Ruggedized display				3.5 inch	landscape) 320	x 240 LCD		,				
Rugged, ergonomic design for one-handed use				5/2	Yes							
Thermal sensitivity (NETD)	≤ 0.08 °C at 30 °C target temp (80 mK)						≤ 0.10 °C at 30 °C target temp (100 mK)	≤ 0.15 °C at 30 °C target temp (150 mK)				
Level and span				Smooth	auto and manua	l scaling			X			
Fast auto toggle between manual and auto modes)	Yes							
Fast auto-rescale in manual mode					Yes							
Minimum span (in manual mode)			\bigcirc		2.5 °C (4.5 °F)							
Minimum span (in auto mode)		\Diamond_{\wedge}			5 °C (9.0 °F)							
Built-in digital camera (visible light)	30 Hz or 9	Hz versions	9 Hz	30 Hz or 9 Hz	5MP 9 Hz	30 Hz or 9 Hz		9 Hz				
Laser pointer		10	<i>v</i>	versions	V 100 M 100 M	versions						
Data storage and image capture			1	65								
	Internal ACR memory and ACR migra CD gard							ternal 4GB memo				
Extensive memory options mage capture, review, save	Internal 4GB memory and 4GB micro SD card One-handed image capture, review, and save capability								cro SD card)			
nechanism mage file formats	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2);											
Memory review	No analysis software required for non-radiometric (.bmp, .jpg) files Dedicated memory view button for quick access to stored images; thumbnail and full screen review											
Software	SmartView® full analysis and reporting software and Fluke Connect® system*											
Export file formats with SmartView® oftware	Bitmap (.bmp), GIF, JPEG, PNG, TIFF											
Toice annotation	60 seconds maximum recording time per image; reviewable playback on camera; Bluetooth headset required (sold separately)								- 33			
R-PhotoNotes™		Yes (3 images)		Yes (1	image)			-				
Video recording		dard and radion tric (MPEG - enc				-	-					
Video file formats	ful	ly radiometric (re stream of the	s3)			-	-					
Streaming video fremate display)	on your PC of hotspot, or Wil ware on a PC;	ve stream of the or smartphone. Ver inetwork to Smoor via WiFi hots transfer app on a smarter transfer stream of the or via WiFi hots transfer of the inequal to the inequal to inequal to i	ia USB, WiFi artView® soft- oot to the Fluke			-	-					
Auto capture temperature and interval)	Yes											
X/\4///4		nı										

^{*}Fluke Connect® system is not available in all countries. Please check availability with your authorized Fluke distributor.

 $^{2 \}quad \text{Fluke Corporation} \qquad \text{TiS75, TiS65/60, TiS55/50, TiS45/40, TiS20, TiS10 Infrared Cameras}$







Detailed specifications

	TiS75	TiS65 TiS60	TiS55 TiS50	TiS45 TiS40	TiS20	TiS10					
Battery						$\overline{\mathcal{C}}$					
Batteries (field-replaceable, rechargeable)		on smart battery pack with five- display to show charge level	One lithium ion smart battery pack with five-segment LED display to show charge level								
Battery life		Four+ hours continuous use per battery pack									
Battery charge time	2.5 hours to full charge										
Battery charging system	Two-bay battery charger or in-imager charging. Optional 12 V automotive charging adapter charging adapter In-imager charging. Optional two-bay battery charger or 12 vantomotive charging adapter										
AC operation			I n with included power supply (100	V AC to 240 V AC, 50/60 Hz)	$\widetilde{}$						
Power saving			User selectable sleep and pov		√						
Temperature measurement											
Temperature measurement range (not calibrated below -10 °C)	-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	-20 °C to +250 °C (- °F to 482 °						
Accuracy		+	2 °C or 2 % (at 25 °C nominal, wh	nichever is greater)		1 10 402					
On-screen emissivity correction		-	Yes (both value and t								
On-screen reflected background											
temperature compensation			Yes								
On-screen transmission correction	Y	es –	Yes -	Yes	-						
Color palettes											
Standard palettes	8: Iro	nbow, Blue-Red, High Contrast, A Hot Metal, Grayscale, Graysc		7: Ironbow, Blue-Red, High Contrast, Amber, Hot Metal, Grayscale, Grayscale Inverted	6: Ironbow, Blue-Red, High Contrast, Amber, Hot Metal, Grayscale	3: Ironbov Blue-Red Grayscale					
Ultra Contrast™ palettes	Ultra, Ambe	ra, Blue-Red Ultra, High Contrast r Ultra, Amber Inverted Ultra, tra, Grayscale Ultra, Grayscale Inverted Ultra		_							
General specifications			(Signal)		No.						
Color alarms (temperature alarms)	High	temperature, low temperature, is	otherms (within range)	High temperature, low temperature	-	-2					
Infrared spectral band			7.5 µm to 14 µm								
Operating temperature	-10 °C to +50 °C (14 °F to 122 °F)										
Storage temperature	20°C to +50°C (-4°F to 122°F) without batteries										
Relative humidity	10% to 95%, non-condensing										
Center-point temperature measurement	Yes										
Spot temperature			Hot and cold spot ma	rkers							
User-definable spot markers Center box		Expandable-contractible mea	surement box	1	-	-8					
	with-MIN-MAX-AVG temp display										
Safety standards	EN (1010) 1: CAT none, pollution degree 2, EN 60825-1: Class 2, EN 60529, EN 62133 (lithium battery)										
Electromagnetic compatibility	EN 61326-1:2006, EN 55011: Class A, EN 61000-4-2, EN 61000-4-3										
C Tick		PNO	IEC/EN 61326-1	A FN 61000 4 2							
US FCC	EN61326-1; FCC Part 5, EN 55011: Class A, EN 61000-4-2										
Vibration and Shock	2G, IEC 68-2-6 and 25G, IEC 68-2-29										
Drop	Engineered to withstand 2 meter (6.5 feet) drop										
Size (H x W x L)	26.7 cm x 10.1 cm x 14.5 cm (10.5 in x 4.0 in x 5.7 in)										
Weight (battery included)	Fixed Focus .72 kg (1.6 lb), Manual focus .77 kg (1.7 lb)										
Enclosure rating	IP54 (protected against dust, limited ingress; protection against water spray from all directions)										
Warranty	Two-years (standard), extended warranties are available Two-years (assumes normal operation and normal aging)										
Recommended calibration cycle	Court D		o-years (assumes normai operatio rman, Hungarian, Italian, Japane:	J 0.	i Cilifi	Ohiman					
Supported languages Fluke Connect® system is not availab		\$	Spanish, Swedish, Traditional Chi		assian, empinee	omnoso,					

³ Fluke Corporation TiS75, TiS65/60, TiS55/50, TiS45/40, TiS20, TiS10 Infrared Cameras



Ordering information

FLK-TiS75 30HZ Infrared Camera FLK-TiS75 9HZ Infrared Camera

FLK-TiS65 30HZ Infrared Camera

FLK-TiS65 9HZ Infrared Camera

FLK-TiS60 9HZ Infrared Camera

FLK-TiS55 30HZ Infrared Camera

FLK-TiS55 9HZ Infrared Camera FLK-TiS50 9HZ Infrared Camera

FLK-TiS45 30HZ Infrared Camera

FLK-TiS45 9HZ Infrared Camera

FLK-TiS40 9HZ Infrared Camera

FLK-TiS20 9HZ Infrared Camera

FLK-TiS10 9HZ Infrared Camera

Included

Infrared camera; AC power supply (including universal AC adapters); two-bay smart battery charger (TiS75, TiS65, TiS60 only); rugged lithium ion smart battery (TiS75, TiS65/60 include 2 each—other models 1 each); USB cable; 4 GB micro SD card (TiS75, TiS65/60, TiS55/50, TiS45 only); rugged, hard carrying case (TiS75, TiS65/60, TiS55/50; TiS45/40); soft transport bag; adjustable hand strap (TiS75, TiS65/60, TiS55/50, TiS45/40). **Available by free download:** SmartView® desktop software and user manual.

Optional accessories

FLK-BLUETOOTH Bluetooth Headset
FLK-TI-TRIPOD3 Tripod Mounting Accessory
BOOK-ITP Introduction to Thermography Principles Book
FLK-TI-SBP3 Additional Smart Battery
FLK-TI-SBC3B Smart Battery Charger
TI-CAR CHARGER Car Charger

Fluke Connect® modules

FLK-a3000 FC AC Current Clamp Module

FLK-a3001 FC iFlex™ AC Current Clamp Module

FLK-a3002 FC AC/DC Current Module

FLK-a3003 FC DC Wireless Clamp

FLK-a3004 FC DC Wireless Clamp

FLK-v3000 FC AC Voltage Module

FLK-v3001 FC DC Voltage Module

FLK-t3000 FC K-Type Temperature Module

RF connection time (binding time) may take up to 1 minute

The Professional Series

For a high performance, feature rich thermal imager that produces consistently in-focus images with a touch of a button EVERY, SINGLE, TIME, consider the Professional Series with LaserSharp® Auto Focus.





Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect system.

- Eliminate data-entry errors by saving measurements directly from the tool and associating them with the work order, report or asset record.
- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- · Access baseline, historical and current measurements by asset.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- Share your measurement data using ShareLive™ video calls and emails.
- The Fluke Performance Series is part of a growing system of connected test tools and equipment maintenance software. Visit the website to learn more about the Fluke Connect* system.

Find out more at flukeconnect.com









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All trademarks are the property of their respective owners. WiFi or cellular service required to share data. Smartphone, wireless service and data plan not included with purchase. First 5 GB of storage is free. Phone support details can be viewed at fluke.com/phones.

Smart phone wireless service and data plan not included with purchase. Fluke Connect is not available in all countries.

Fluke. Keeping your world up and running.®

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