

TECHNICAL DATA

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

The Fluke Performance Series



GOOD IMAGE QUALITY WITH UP TO 320 X 240 RESOLUTION

RESOLUTION

TiS75

320 x 240 D:S 514:1

TiS65/60 260 x 195

D:S 417:1 TiS55/50

220 x 165 D:S 353:1

TiS45/40 160 x 120 D:S 257:1

TiS20 120 x 90 D:S 193:1

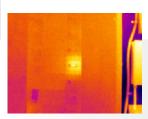
TiS10 80 x 60 D:S 128:1 **FIELD OF VIEW** 35.7 °H x 26.8 °V



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. Make faster decisions by accessing inspection measurements from anywhere. Team members can instantly see the same data, at the inspection site and the office.
- 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.







50% blending, picture-inpicture mode



50% blending



Detailed specifications

	TiS75 TiS65 TiS60		SITIS60	TiS	55 TiS50	TiS45 TiS40		TiS20	TiS10	
Key features										
IFOV (spatial resolution)	2.0 mRad 320 x 240	2.4 mRad		2.8 mRad		3.9 mRad		5.2 mRad 120 x 90	7.8 mRad 80 x 60	
Infrared resolution	(76,800 pixels)	260 x 195 (50,700 pixels)		220 x 165 (36,300 pixels)		160 x 120 (19,200 pixels)		(10,800 pixels)	(4,800 pixels	
Field of view				;	35.7 °H x 26.8 °V					
Distance to spot	514:1	417:1		353:1		257:1		193:1	128:1	
Temperature measurement range (calibrated below -10 °C for MF**)	-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 +350 °C (-4 °F to 662 °F)		60 °C (–4 °F to 2 °F)	-20 °C to +250 °C (-4 °F to 482 °F)	
Focus system		Manual focus, minimum focus distance 15 cm (~6 in) Fixed focus, minimum focus distance 45 cm (~18 in)		Manual focus, minimum fo- cus distance 15 cm (~6 in)	Fixed focus, minimum focus distance 45 cm (~18 in)	Manual focus, minimum focus distance 15 cm (~6 in)	Fixed focu	s, 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		Yes*, assign in	mages to assets ar		rders. Easily compare		nt types–whethe	er mechanical,		
optional software		, and the second		electrical or in	frared images-in on	e location				
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	s wirelessly to sele		t® enabled tools and		asurements on o	camera screen.		
IR-Fusion® technology			Yes, adds the co		neous connections su le details to your infr				_	
AutoBlend™ mode	100 %, 75 %, 50 %, 25 % IR plus full visible on camera; continuously variable in software						100 %, 50 % IR and full visible on camera; continuously variable in software	100 % IR and full visible on camera; continuously variable in software		
Picture-In-Picture (PIP)	100 %, 75 %, 50 %, 25 % IR; continuously variable in software Not available on camera; continuously variable in software									
Ruggedized display				3.5 inch (landscape) 320 x 240	LCD		,		
Rugged, ergonomic design for one-handed use					Yes					
Thermal sensitivity (NETD)	\leq 0.08 °C at 30 °C target temp (80 mK) $ \leq$ 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)			
Level and span				Smooth	auto and manual scal	ling		, ,	, ,	
Fast auto toggle between manual and auto modes					Yes					
Fast auto-rescale in manual mode					Yes					
Minimum span (in manual mode)	2.5 °C (4.5 °F)									
	5 °C (9.0 °F)									
Minimum span (in auto mode)										
Minimum span (in auto mode) Built-in digital camera (visible light)			I	I	5MP	20 11= 0=				
- , , , , , , , , , , , , , , , , , , ,	30 Hz or 9 Hz	versions	9 Hz	30 Hz or 9 Hz versions		30 Hz or 9 Hz ver- sions		9 Hz		
Built-in digital camera (visible light) Frame rate Laser pointer		versions	9 Hz Ye	versions	5MP	9 Hz ver-		9 Hz –		
Built-in digital camera (visible light) Frame rate Laser pointer		versions		versions	5MP	9 Hz ver-		-		
Built-in digital camera (visible light) Frame rate Laser pointer				versions	5MP 9 Hz	9 Hz ver-		9 Hz — ternal 4GB memo		
Built-in digital camera (visible light) Frame rate Laser pointer Data storage and image capture			Ye nal 4GB memory a	versions es and 4GB micro SI	5MP 9 Hz	9 Hz versions	(includes slo	– ternal 4GB memo		
Built-in digital camera (visible light) Frame rate Laser pointer Data storage and image capture Extensive memory options Image capture, review, save			Yenal 4GB memory a One	versions and 4GB micro SI a-handed image	5MP 9 Hz 0 card capture, review, and p) or (.jpeg) or fully-r	9 Hz versions save capabil	(includes slo ity (s2);	– ternal 4GB memo		
Built-in digital camera (visible light) Frame rate Laser pointer Data storage and image capture Extensive memory options Image capture, review, save mechanism			Yenal 4GB memory a One	versions and 4GB micro SI a-handed image	5MP 9 Hz 0 card capture, review, and	9 Hz versions save capabil	(includes slo ity (s2);	– ternal 4GB memo		
Built-in digital camera (visible light) Frame rate Laser pointer Data storage and image capture Extensive memory options Image capture, review, save mechanism Image file formats		Inter	Ye nal 4GB memory a One Non- No analy	versions and 4GB micro SI e-handed image radiometric (.bm sis software req	5MP 9 Hz 0 card capture, review, and p) or (.jpeg) or fully-r	9 Hz versions save capabil adiometric (.: etric (.bmp, .j	(includes slo ity (s2); pg) files	– ternal 4GB memo ot for optional mi		
Built-in digital camera (visible light) Frame rate Laser pointer Data storage and image capture Extensive memory options Image capture, review, save mechanism Image file formats Memory review		Inter	Ye nal 4GB memory a One Non- No analy ® desktop softwa	versions and 4GB micro SI e-handed image radiometric (.bm sis software require—full analysis Bitmap (.1)	9 Hz O card capture, review, and p) or (.jpeg) or fully-ruired for non-radiomo and reporting softwa omp), GIF, JPEG, PNG,	9 Hz versions save capabil adiometric (.: etric (.bmp, .j	(includes slo ity (s2); pg) files	– ternal 4GB memo ot for optional mi		
Built-in digital camera (visible light) Frame rate Laser pointer Data storage and image capture Extensive memory options Image capture, review, save mechanism Image file formats Memory review Software	:	Inter	nal 4GB memory a One Non- No analy desktop softwa ximum recording Bluetooth head	versions and 4GB micro SI a-handed image radiometric (.bm sis software requ re—full analysis Bitmap (.l) time per image; dset required (so	9 Hz O card capture, review, and p) or (.jpeg) or fully-ruired for non-radiom and reporting softwa omp), GIF, JPEG, PNG, reviewable playback	9 Hz versions save capabil adiometric (.: etric (.bmp, .j	(includes slo ity (s2); pg) files	– ternal 4GB memo ot for optional mi		

^{*}Fluke Connect® analysis and reporting software is available in all countries but Fluke Connect is not. Please check availability with your authorized Fluke distributor.
**MF refers to manual focus



Detailed specifications

	TiS75	TiS65	TiS60	TiS	55 TiS50	TiS4	5 TiS40	TiS20	TiS10
Video file formats	Non-radiometric (MPEG - encoded .avi) and fully radiometric (.is3)					_	-		
Streaming video (remote display)	your PC or sma or WiFi netwo software; or	e stream of the ca artphone. Via US ork to Fluke Con via WiFi hotspo ct® app on a sma	nect® desktop t to the Fluke	_					
Auto capture (temperature and interval)					Yes				
Battery									
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery pack with five- segment LED display to show charge level One lithium ion smart battery pack with five-segment LED display to show charge level								
Battery life Battery charge time					ontinuous use per ba	птегу раск			
Battery charging system	Two-bay battery charger or in-imager charging. Optional 12 V automotive charging adapter					bay battery ch		utomotive chargin	ng adapter sold
AC operation		onarging adapto		with included p	ower supply (100 V A	AC to 240 V AC	. 50/60 Hz)		
Power saving			The openion		le sleep and power of		,,,		
Temperature measurement									
Temperature measurement range (not calibrated below 10 °C for FF*)	-20 °C to +550 °C (-4 °F to 1022 °F)		0 +550 °C 0 1022 °F)		C to +450 °C F to 842 °F)	_	-20 °C to +350 °C (-4 °F to 662 °F)		-20 °C to +250 °C (-4 °F to 482 °F)
Accuracy	,		± 2	2 °C or 2 % (at 2	5 °C nominal, which	ever is greater)		
On-screen emissivity correction					both value and table	•			
On-screen reflected background temperature compensation					Yes				
On-screen transmission correction	Υe	es	-	Yes	-	Yes		-	
Color palettes								6: Ironbow.	
Standard palettes	8: Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted					High Cont Hot Metal	v, Blue-Red, rast, Amber, , Grayscale, le Inverted	Blue-Red, High Contrast, Amber, Hot Metal, Grayscale	3: Ironbow, Blue-Red, Grayscale
Ultra Contrast™ palettes	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra					_			
General specifications									
Color alarms (temperature alarms)	High temperature, low temperature, isotherms (within range)						erature, low erature	-	
Infrared spectral band					7.5 µm to 14 µm				
Operating temperature					+50 °C (14 °F to 12:	•			
Storage temperature			-:		(-4 °F to 122 °F) with				
Relative humidity				10 % to	95%, non-condens	ing			
Center-point temperature measurement					Yes				
Spot temperature				Hot a	and cold spot markers	S			
User-definable spot markers		3			2		1	-	_
Center box	Expandable-contractible measurement box with MIN-MAX-AVG temp display							_	
Safety standards	EN 61010-1: 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					IEC/EN 61326-1				
US FCC			EN61	326-1; FCC Part	5, EN 55011: Class A	A, EN 61000-4	-2		
Vibration and Shock				2G, IEC 68	-2-6 and 25G, IEC 68	3-2-29			
Drop				Engineered to v	vithstand 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)			Fix	ed Focus .72 kg	(1.6 lb), Manual focu	s .77 kg (1.7 lb)		
Enclosure rating		IP54 (protected against	dust, limited in	gress; protection aga	inst water spr	ay from all dire	ctions)	
Warranty			Two	-years (standard	d), extended warrant	ies are availal	ole		
	Two-years (assumes normal operation and normal aging)								
Recommended calibration cycle			1 WO-	-years (assumes	normai operation ai	ia normar agri	-91		

^{*}FF refers to fixed focus

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: 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.

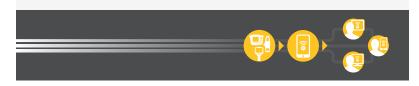
Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect® system.

- 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.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- · Access baseline, historical and current measurements by asset.
- 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**







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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