

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

FIELD OF VIEW

35.7 °H x 26.8 °V

RESOLUTION TiS75 320 x 240 D:S 514:1 **TiS65/60** 260 x 195

TiS55/50 220 x 165 D:S 353:1

D:S 417:1

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

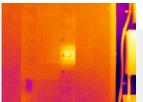


Fluke Connect® compatible

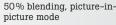
Rugged. Accurate. Built to perform.

- Save time-wirelessly sync images directly from your camera to the Fluke Connect[®] system, and attach to an asset record or work order. 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

*Varies by model

Full infrared



Detailed specifications

	TiS75	TiS75 TiS65 TiS60		TiS	55 TiS50	TiS45 TiS40		TiS20	TiS10	
Key features IFOV (spatial resolution)	2.0 mRad	2.4 mPad		2.0 mBad		2.0 mBod		5.2 mRad	7.8 mRad	
Infrared resolution	320 x 240 (76,800 pixels)	2.4 mRad 260 x 195 (50,700 pixels)		2.8 mRad 220 x 165 (36,300 pixels)		3.9 mRad 160 x 120 (19,200 pixels)		120 x 90 (10,800 pixels)	80 x 60 (4,800 pixels)	
Field of view				:	35.7 °H x 26.8 °V	1		1 · · · ·		
Distance to spot	514:1	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)	550 °C (-4 -20 °C to +550 °C		-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 +250 °C (-4 °F to 482 °F)	
Focus system	Manual focus, minimum focus distance 15 cm (~6 in) (~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 focus, minimum fo 45 cm (~18 i 45 cm (~18 i		ıs, minimum focu 45 cm (~18 in)	s distance	
Wireless connectivity		Yes, to PC,	iPhone [®] and iPad	® (iOS 4s and la	ter), Android™ 4.3 an	d up, and Wi	Fi to LAN (where	e 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	Yes*, assign images to assets and create work orders. Easily compare measurement types–whether mechanical, electrical or infrared images–in one 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 wirelessly to select Fluke Connect® enabled tools and displays measurements on camera screen. Five simultaneous connections supported									
IR-Fusion® technology			Yes, adds the co	ntext of the visib	ole details to your infr	ared image			_	
AutoBlend™ mode	100 %, 75 %, 50 %, 25 % IR plus full visible on camera; continuously variable in software						are	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 came tinuously variable in									
Ruggedized display	3.5 inch (landscape) 320 x 240 LCD									
Rugged, ergonomic design for one-handed use					Yes					
Thermal sensitivity (NETD)	≤ 0.08 °C at 30 °C target temp (80 mK)						at 30 °C target temp 10 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		(100 mil)	(100 mil)	
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)					
Minimum span (in auto mode)					5 °C (9.0 °F)					
Built-in digital camera (visible light)				1	5MP					
Frame rate	30 Hz or 9	Hz versions	9 Hz	30 Hz or 9 Hz versions	9 Hz	30 Hz or 9 Hz ver- sions		9 Hz		
Laser pointer			Уе	s				-		
Data storage and image capture	2									
Extensive memory options	Internal 4GB memory and 4GB micro SD card Internal 4G (includes slot for opti							ternal 4GB memo ot for optional mi		
Image capture, review, save mechanism	One-handed image capture, review, and save capability									
Image file formats	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); No analysis software required for non-radiometric (.bmp, .jpg) files									
Memory review					_					
Software		Fluke Connect	® desktop softwa	re—full analysis	and reporting softwa	ire with acce	ss to the Fluke (Connect system		
Export file formats with software				Bitmap (.l	omp), GIF, JPEG, PNG,	TIFF				
Voice annotation	60 seconds maximum recording time per image; reviewable playback on camera; Bluetooth headset required (sold separately)						-	-		
IR-PhotoNotes™		Yes (3 images)		Yes	(1 image)			-		
Video recording	Star	ndard and radior	netric			-	-			

*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	ITiS60	TiS	55 TiS50	TiS45	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		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 LED display to show charge level										
Battery life					ontinuous use per bat	tery 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						bay battery charger or 12v automotive charging adapter sold separately				
AC operation	AC operation with included power supply (100 V AC to 240 V AC, 50/60 Hz)										
Power saving	User selectable sleep and power off modes										
Temperature measurement											
Temperature measurement range (not calibrated below 10 °C for FF*)	-20 °C to +550 °C (-4 °F to 1022 °F) -20 °C to +550 °C (-4 °F to 1022 °F)				C to +450 °C F to 842 °F)			50 °C (–4 °F to 2 °F)	-20 °C to +250 °C (-4 °F to 482 °F		
Accuracy			± 2	2 °C or 2 % (at 2	5 °C nominal, whiche	ver is greater)					
On-screen emissivity correction					both value and table)	•					
On-screen reflected background temperature compensation	Yes										
On-screen transmission correction	Ye	s	-	Yes	-	Yes		-			
Color palettes											
Standard palettes	8: Ironbow, Blue–Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted					7: Ironbow, High Contra Hot Metal, Grayscale	ist, Amber, Grayscale,	6: Ironbow, 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)					High tempe tempe		-	-		
Infrared spectral band	7.5 μm to 14 μm										
Operating temperature	-10 °C to +50 °C (14 °F to 122 °F)										
Storage temperature			-		(-4 °F to 122 °F) with						
Relative humidity				10% to	95%, non-condensi	ng					
Center-point temperature measurement					Yes						
Spot temperature				Hot a	and cold spot markers						
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	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)					(1.6 lb), Manual focus	• · ·					
Enclosure rating		IP54 (gress; protection again			ctions)			
Warranty	Two-years (standard), extended warranties are available										
Recommended calibration cycle	Two-years (assumes normal operation and normal aging) Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese,										
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*FF refers to fixed focus

Ordering information

FLK-TiS7530HZInfrared CameraFLK-TiS759HZInfrared CameraFLK-TiS6530HZInfrared CameraFLK-TiS659HZInfrared CameraFLK-TiS5530HZInfrared CameraFLK-TiS559HZInfrared CameraFLK-TiS559HZInfrared CameraFLK-TiS559HZInfrared CameraFLK-TiS559HZInfrared CameraFLK-TiS4530HZInfrared CameraFLK-TiS459HZInfrared CameraFLK-TiS409HZInfrared CameraFLK-TiS209HZInfrared CameraFLK-TiS109HZInfrared 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.



Preventive maintenance simplified. Rework eliminated.

FLUKE ®

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.

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.



Fluke. Keeping your world up and running.®

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