

TECHNICAL DATA

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



9 NEW CAMERAS. UP TO 320 X 240 RESOLUTION.

RESOLUTION

TiS75

320 x 240 D:S 504:1

TiS65/60

260x195 D:S 409:1

TiS55/50 220x165

D:S 346:1 **TiS45/40** 160x120

D:S 252:1 **TiS20** 120x90 D:S 189:1

TiS10 80x60 D:S 128:1 **FIELD OF VIEW** 35.7 ° x 26.8 °



Fluke Connect® compatible

The Fluke Performance Series

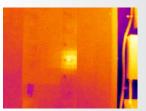
Built for performance with features that help you easily and quickly identify problems before they become expensive failures.

Get improved resolution that delivers the right image quality you need to make the proper diagnosis:

- Up to 320 x 240 resolution
- Reduce the amount of time it takes to get an in-focus image with manual or fixed focus options
- · Securely store and manage your images from anywhere
- WiFi upload to Fluke Cloud™
- Free storage with Fluke Cloud™
- Share images in real-time with Fluke Connect
- Removable 4GB micro SD card
- Voice annotation*
- Edit and analyze images then create and send reports from your smartphone directly from the field with Fluke Connect

IR-Fusion® Technology

The instant blending of visible light and infrared, along with picture-in-picture mode, easily reveal both problem and location.







50% blending, picture-inpicture mode



50% blending

*Varies by model



Detailed specifications

	TiS75 TiS65 TiS60		TiS60	TiS55	TiS50	TiS45	TiS40	TiS20	TiS10										
Key features																			
IFOV (spatial resolution)	2.0 mRad	mRad 2.4 mRad		2.8 mRad		3.9 mRad		5.2 mRad	7.8 mRad										
Detector resolution	320 x 240	260 x 195		220		160		120 x 90	80 x 60										
Field of view	02011210	200	. 100		35.7° x 26.8°	100.		1201100	001100										
Distance-to-Spot								189:1	128:1										
· · · · · · · · · · · · · · · · · · ·	504:1 409:1				232.1		109.1	120.1											
Wireless connectivity				77-	Yes	1-1													
Fluke Connect compatible				Ye.	s (where availab	ote)													
IR-Fusion® technology	Г																		
AutoBlend™ mode			5 presets (C	0%, 25%, 50%, 7	/5%, 100%)			3 presets (0%, 50%, 100%)	_										
Picture-In-Picture (PIP)			5 presets (C	0%, 25%, 50%, 7	5%, 100%)			-	-										
Focus system	Manual focus, Minimum focus distance, 0.15 m (6 in) Manual focus, Minimum focus distance focus distance focus distance focus distance focus foc			Manual focus, Minimum fo- cus distance, 0.15 m (6 in)	Fixed focus, Minimum focus distance 0.45 m (1.5 ft)	Manual focus, Minimum fo- cus distance, 0.15 m (6 in)	Fixed focus, M	finimum focus di (1.5 ft)	stance 0.45 m										
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 te				°C target temp mK)	≤ 0.10 °C at 30 °C target temp (100 mK)	≤ 0.15 °C at 30 °C target temp (150 mK)										
Temperature measurement range (not calibrated below -10 °C)	-20 °C to +550 °C (-4 °F to 1022 °F)			-20 °C to (-4 °F to	+450 °C 842 °F)	-20 °C to +350 °C (-4 °F		o 662 °F)	-20 °C to +250 °C (-4 °F to 482 °F)										
Level and span				Smooth	auto and manua	l scaling													
Fast auto toggle between manual and automodes	Yes																		
Fast auto-rescale in manual mode					Yes														
Minimum span (in manual mode)					2.5 °C														
Minimum span (in auto mode)					5 °C														
Built-in digital camera (visible light)	5MP																		
Frame rate	9 Hz oi	30 Hz	9 Hz	9 Hz or 30 Hz	9 Hz	9 Hz or 30 Hz		9 Hz											
Laser pointer			Y	es				_											
Data storage and image capture																			
Extensive SD memory system	Internal 4GB memory and 4GB micro SD card (optional 4GB micro SD card sold sepa																		
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 Upload captured images to Fluke Connect server with the use of a Wifi connection																		
Instant Upload			оргова сартигес				will collnection												
Memory review	Thumbnail review																		
Software Export file formats with SmartView®	SmartView® software -full analysis and reporting software and Fluke Connect® (where available) BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF, and TIFF																		
voice annotation	Yes, Bluetooth Headset (sold separately)								_										
IR-PhotoNotes™		Yes (3 images)	105, 514010		image)			_											
Standard video recording		Yes		165 (1		_													
						_	-												
Radiometric video recording	Yes Non-radiometric (MPEG - encoded .AVI) and					_													
Video file formats		ric (MPEG - enc ly radiometric (.)				-	-												
Battery		,	,																
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five- segmentLED display to show charge level One lithium ion smart battery packs with five-segment LED display to show charge level																		
Battery life	Four+ hours																		
Battery charge time	2.5 hours to full charge																		
Battery charging system		bay battery cha: ı– imager chargi		In-imager charging (optional external charger sold separately)															
AC operation			AC operation	with included p	ower supply (100	O V AC to 240 V A	C, 50/60 Hz)												
Temperature measurement	± 2 °C or 2% (at 25 °C nominal, whichever is greater)																		
Temperature measurement Accuracy			<u>+</u>	: 2 °C or 2% (at 2	5 °C nominal, wh	nchever is greate	r)		Yes (both value and table)										
Accuracy			<u>+</u>				r)												
Accuracy On-screen emissivity correction			<u>+</u>		both value and t		er)												
Accuracy			±				.r)												





Detailed specifications

	TiS75	TiS65 TiS60	TiS55 TiS50	TiS45 TiS40	TiS20	TiS10					
Color palettes											
Standard palettes	8: Iron	bow, Blue–Red, High–Contrast, <i>I</i> Hot Metal, Grayscale, Graysc		7: Ironbow, Blue-Red, High- Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted	6: Ironbow, Blue-Red, High-Con- trast, 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 Inverted Ultra										
General specifications											
Color alarms (temperature alarms		High temperature, low tempera	ature, Isotherms	High temperature, low temperature	-	-					
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)										
Relative humidity		10% to 95%, non-condensing									
Center-point temperature measurement	Yes										
Spot temperature			Yes								
User-definable spot markers		3	2	1	-	_					
Center box	Expandable-contractible measurement box with MIN-MAX-AVG temp										
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)	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										
Recommended calibration cycle		Two-years (assumes normal operation and normal aging)									
Supported languages	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish										



Ordering information

FLK-TiS75 30HZ Industrial Commercial Thermal Imager FLK-TiS75 9HZ Industrial Commercial Thermal Imager FLK-TiS65 30HZ Industrial Commercial Thermal Imager FLK-TiS65 9HZ Industrial Commercial Thermal Imager FLK-TiS60 9HZ Industrial Commercial Thermal Imager FLK-TiS55 30HZ Industrial Commercial Thermal Imager FLK-TiS55 9HZ Industrial Commercial Thermal Imager FLK-TiS50 9HZ Industrial Commercial Thermal Imager FLK-TiS45 30HZ Industrial Commercial Thermal Imager FLK-TiS45 9HZ Industrial Commercial Thermal Imager FLK-TiS40 9HZ Industrial Commercial Thermal Imager FLK-TiS20 9HZ Industrial Commercial Thermal Imager FLK-TiS10 9HZ Industrial Commercial Thermal Imager FLK-TiS10 9HZ Industrial Commercial Thermal Imager

Included

Infrared cameras are shipped with a universal AC power adapter, lithium ion smart battery (TiS75, TiS65/60 includes 2 each—other models 1 each), USB cable, Micro SD card (TiS75, TiS65/60, TiS55, TiS45), hard carrying case (TiS75, TiS65/60, TiS55/50, TiS45/40), soft transport bag, adjustable hand strap (TiS75, TiS65/60, TiS55/50, TiS45/40), and quick reference guide and safety sheet. Software is available via download at www.fluke.com/smartviewdownload. TiS75, TiS65/60 models include a two-bay battery charger.

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.

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.







Set up and sustain preventive maintenance practices with ease to help you oversee your complex world with the Fluke Connect® system of software and over 40 wireless test tools.

- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Save measurements to the Fluke Cloud™ and associate with an asset so your team can consult baseline, historical and current measurements from one location.
- Collaborate with ease by sharing your measurement data with team members with ShareLive™ video calls and emails.
- Wireless one-step measurement transfer with AutoRecord™ measurements eliminates transcription errors, clipboards, notebooks and multiple spreadsheets.
- Generate reports with multiple measurement types to provide status or next step recommendations.

Find out more and take a free trial at: flukeconnect.com





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Fluke Connect is not available in all countries. Check with your local Fluke representative for information.

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