

TECHNICAL DATA

TiS10, TiS20, TiS40, TiS45, TiS50, TiS55, TiS60, TiS65 Thermal Imagers



8 NEW CAMERAS. UP TO 2.5 TIMES¹ MORE PIXELS.

RESOLUTION

TiS65/60 260x195 D:S 417:1

TiS55/50 220x165 D:S 353:1

TiS45/40 160x120 D:S 257:1

TiS20 120x90 D:S 193:1

TiS10 80x60 D:S 128:1

FIELD OF VIEW 35.7 ° x 26.8 °



Compatible with Fluke Connect[®] Mobile App

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 2.5^1 times more pixels and $70\%^1$ better D:S
- 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 anywhere³
 - WiFi upload to Fluke Cloud[™]
 - Free storage² with Fluke Cloud[™]
 - Share images in real-time with Fluke Connect®
 - Removable 4GB micro SD card
 - Voice annotation⁴
- Create and email reports from the jobsite with Fluke Connect[®], eliminating the need to go back to the office to process reports

IR-Fusion® Technology

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







Full infrared

75 % blending

Picture-in-Picture

¹Compared to the Fluke Ti125 thermal imager. ²5GB of free storage. ³Within your provider's wireless service area; Fluke Connect® is not available in all countries. ⁴Varies by model

Detailed specifications



	TiS65 TiS60	TiS55	TiS50	TiS45 TiS40		TiS20	TiS10			
Key features										
IFOV (spatial resolution)	2.4 mRad	2.8 r	nRad	3.9 mRad		5.2 mRad	7.8 mRad			
Detector resolution	260 x 195	220 x 165		160 x120		120 x 90	80 x 60			
Field of view			35.7 ° x :	26.8 °						
Distance-to-Spot	417:1	35	3:1	25	7:1	193:1	128:1			
Wireless connectivity			Yes	3						
Fluke Connect® app compatible			Yes (where a	available)						
IR-Fusion® technology										
AutoBlend™ mode	5 presets (0%, 25%, 50%, 75%, 100%)					3 presets (0%, 50%, 100%)	_			
Picture-In-Picture (PIP)	5 presets (0%, 25%, 50%, 75%, 100%)						_			
Focus system	Manual focus, Minimum focus distance, 0.15 m (6 in)Fixed focus, Minimum focus distance 0.45 m (1.5 ft)	Manual focus, Minimum focus distance, 0.15 m (6 in)	Fixed focus, Minimum focus distance 0.45 m (1.5 ft)	Manual focus, Minimum focus distance, 0.15 m (6 in)	m focus , 0.15 m Fixed focus, Minimum focus distance 0.45 m (1.					
Ruggedized display		:	3.5 inch (landscape	e) 320 x 240 LCD						
Rugged, ergonomic design for			Yes							
one-handed use				,		1				
Thermal sensitivity (NETD)	≤ 0.08 °C at 30 °C target temp (80 mK)) °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)		9 + 450 °C 9 842 °F)			662 °F)	-20 °C to +250 °C (-4 ° to 482 °F)			
Level and span	Smooth auto and manual scaling									
Fast auto toggle between manual and automodes										
Fast auto-rescale in manual mode	Yes									
Minimum span (in manual mode)			2.5 °	°C						
Minimum span (in auto mode)			5 °(
Built-in digital camera (visible light)			5M	р						
Frame rate	9 Hz or 30 Hz 9 Hz	9 Hz or 30 Hz	9 Hz	9 Hz or 30 Hz		9 Hz				
Laser pointer		Yes –								
Data storage and image capture										
Extensive SD memory system	Internal 4GB memory and 4GB micro SD card [optional 4GB micro SD card sold separately]									
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									
Instant Upload	Upload captured images to Fluke Connect server with the use of a Wifi connection									
Memory review	Thumbnail review									
Software	SmartView® software -full analysis and reporting software and Fluke Connect® (where available)									
Export file formats with SmartView® software	BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF, and TIFF									
Voice annotation		Yes, Bluetooth Head	set (sold separately	7)			_			
IR-PhotoNotes™	Yes (3 images)	Yes (1	image)							
Standard video recording	Yes			_						
Radiometric video recording	Yes			_						
Video file formats	Non-radiometric (MPEG - encoded .AVI) and fully radiometric (.IS3)			-						
Battery										
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five-segment One lithium ion smart battery packs with five-segment LED display to show charge level LED display to show charge level									
Battery life	Four+ hours									
Battery charge time Battery charging system	2.5 hours to full charge Two-bay battery charger or In imager charging (optional external charger cold concretely)									
	in-imager charging									
AC operation		AC operation with in	ncluded power supp	oly (100 V AC to 240	0 V AC, 50/60 Hz)					
Temperature measurement										
Accuracy		± 2 °C or	2% (at 25 °C nomin	nal, whichever is gi	reater)					
On-screen emissivity correction	Yes (both value and table)									
On-screen reflected background temperature compensation	Yes									
	Yes									

Detailed specifications



	TiS65 TiS60	TiS55 TiS50	TiS45 TiS40	TiS20	TiS10			
Color palettes								
Standard palettes		ontrast, Amber, Amber Inverted, e, Grayscale Inverted	7: Ironbow, Blue-Red, High- Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted	6: Ironbow, Blue-Red, High-Contrast, Amber, Hot Metal, Gray- scale	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	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							
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-TiS6530HZ Industrial Commercial Thermal ImagerFLK-TiS659HZ Industrial Commercial Thermal ImagerFLK-TiS5530HZ Industrial Commercial Thermal ImagerFLK-TiS559HZ Industrial Commercial Thermal ImagerFLK-TiS509HZ Industrial Commercial Thermal ImagerFLK-TiS4530HZ Industrial Commercial Thermal ImagerFLK-TiS4530HZ Industrial Commercial Thermal ImagerFLK-TiS459HZ Industrial Commercial Thermal ImagerFLK-TiS459HZ Industrial Commercial Thermal ImagerFLK-TiS409HZ Industrial Commercial Thermal ImagerFLK-TiS209HZ Industrial Commercial Thermal ImagerFLK-TiS109HZ Industrial Commercial Thermal Imager

Included

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



See it. Save it. Share it. All the facts, right in the field.

Fluke Connect[®] with ShareLive[™] video call is the only wireless measurement system that lets you stay in contact with your entire team without leaving the field. The Fluke Connect[®] mobile app is available for Android[™] (4.3 and up) and iOS (4s and later) and works with over 20 different Fluke products—the largest system of connected test tools in the world. And more are on the way. Go to the Fluke website to find out more.

FLUKE CONNECT

Download the app at:





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.

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