

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 guickly 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 2.51 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.







75 % blending



Picture-in-Picture

¹Compared to the Fluke Ti125 thermal imager.

²5GB of free storage.

Within 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 m	Rad	2.8 r	nRad	3.9 r	nRad	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 2	26.8°					
Distance-to-Spot	417	:1	35	3:1	25	7:1	193:1	128:1		
Wireless connectivity				Yes		S				
Fluke Connect® app compatible				Yes (where a	available)					
IR-Fusion® technology										
AutoBlend™ mode	5 presets (0°			s (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)	Fixed focus, Mini	nimum focus distance 0.45 m (1.5			
Ruggedized display				3.5 inch (landscape	e) 320 x 240 LCD					
Rugged, ergonomic design for one-handed use				Yes						
Thermal sensitivity (NETD)	<u> </u>	5 0.08 °C at 30 °C t	arget temp (80 mK)		≤ 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)		
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 to		662 °F)	-20 °C to +250 °C (-4 °F to 482 °F)		
Level and span			<u> </u>	Smooth auto and	manual 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)				5M1	?					
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	r)					
IR-PhotoNotes™	Yes (3 in		Yes (1	image)						
Standard video recording	Ye				_					
Radiometric video recording Video file formats	Yes Non-radiometric (MPEG - encoded				<u> </u>					
	.AVI) and fully ra	aiometric (.IS3)								
Battery										
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five-segment LED display to show charge level LED display to show charge level									
Battery life				Four+ h						
Battery charge time Battery charging system	Two-bay batte		2.5 hours to full charge In-imager charging (optional external charger sole				separately)			
AC operation	in-imager		L AC operation with ir	ncluded power supr	oly (100 V AC to 240	O V AC, 50/60 Hz)				
Temperature measurement										
			+ 2 °C or	206 lat 25 °C nomis	aal whichover is or	reater)				
Accuracy	± 2 °C or 2% (at 25 °C nominal, whichever is greater) Yes (both value and table)									
Accuracy On-screen emissivity correction			12 001			Catcij				
Accuracy On-screen emissivity correction On-screen reflected background temperature compensation			12 001		e and table)	Catery				

Detailed specifications



	TiS65 TiS60	TiS55 TiS50	TiS45 TiS40	TiS20	TiS10				
Color palettes	11500111500	11000111000	IIDIOIIIDIO	11520	11010				
Standard palettes		ontrast, Amber, Amber Inverted, ,, 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	, dultra, — Ultra, 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 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-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

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.

Download the app at:





Smart phone wireless service and data plan not included with purchase.



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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Fluke:

<u>FLK-TIS50 9HZ FLK-TIS55 30HZ FLK-TIS65 30HZ FLK-TIS60 9HZ FLK-TIS60 9HZ FLK-TIS10 9HZ FLK-TIS20 9HZ FLK-TIS45 30HZ</u>