

Ti125, Ti110, Ti105 Industrial-Commercial and the Ti100 General Use Thermal Imagers

Technical Data





Industrial, mechanical, electromechanical and general building maintenance.



Process, refractory insulation, tank and vessel levels, steam systems and traps, pipes and valves, etc.



Electrical, unbalanced loads, overloaded systems, wiring problems or component failure, etc. The lightest, most rugged and easiest-to-use professional thermal imagers around.

A Fluke thermal imager can save you time and money by finding potential problems before they become costly failures. With the innovative features and functionality in the Fluke Ti125, Ti110, Ti105 and Ti100 imagers, you can perform infrared inspections faster and more efficiently and thoroughly document problem areas for additional follow-up.

Key features

- Exclusive IR-OptiFlex™ focus system—ensures that images are in good focus from 1.2 meters (4 feet) and beyond for optimum image clarity and scanning convenience. For shorter distances change to manual mode with the touch of a finger (Ti110 and Ti125).
- Always have references handy—IR-PhotoNotes[™] annotation system—Quickly identify and keep track of inspection locations by adding digital images of important information and surrounding areas (Ti110 and Ti125).
- Find problems faster and easier with Fluke IR-Fusion[®] technology (Ti125, Ti110, Ti105). Accurately identify potential issues by combining digital and IR images.
- Get further clarification with AutoBlend™ mode—the blending of a digital and partially transparent IR image into a single information-filled image (Ti125 only).
- Multi-mode video recording—focus-free video in visible light and infrared with full IR-Fusion. (Til 10 and Til 25 only).
- Easily communicate the location of problems with the Electronic 8-Point Cardinal Compass (Tillo and Til25 only).

Spend less time finding problems and more time solving them with the innovative, rugged and easy to use Ti125, Ti110, Ti105 Industrial-Commercial and Ti100 General Use Thermal Imagers.



Patented Fluke IR-Fusion® Technology

Enjoy the industry's only point-and-shoot IR-Fusion camera. Fluke patented technology provides the user with both a digital and an infrared image in one to precisely document problem areas.

IR-OptiFlex™ focus system

Scan for issues significantly faster than before with Fluke's revolutionary, ultra-rugged focus system. The IR-OptiFlex focus system gives you optimum focus by combining focus-free, ease-of-use with the flexibility of manual focus on the same camera.



Detailed specifications

	Ti125	Ti110	Ti105	Ti100	
	11120	Industrial-Commercial	11100	General use	
IR resolution (FPA size)			oled Microbolometer	40110141 400	
Spectral band		7.5 μm to 14 μm (long wave)			
Capture or refresh rate				9 Hz	
NETD (Thermal sensitivity)		9 nz of 30 nz versions 9 nz ≤ 0.10 °C at 30 °C target temp (100 mK)			
FOV (Field of view)	22.5 °H x 31 °V				
IFOV (Spatial resolution)			mRad		
Temperature measurement range	20 °C to ±250 °C				
(not calibrated below -10 °C)	-20 °C to +250 °C (-4 °F to +482 °F)				
Temperature measurement accuracy	\pm 2 °C or 2 % (at 25 °C nominal, whichever is greater)				
Focus mechanism	IR-OptiFlex™ focus system		Focus-free 1.2 m (4 ft) and beyond		
IR-Fusion* technology	PIP, FULL IR, FULL VISIBLE, AutoBlend	PIP, FULL IR, FULL VISIBLE	PIP (1.2 m (4 ft) to 4.6 m (15 ft)), FULL IR, FULL VISIBLE	No, full IR only	
Color alarms	High temperature, low temperature, isotherm	High temperature	-	-	
Standard palettes	Blue-Red, Grayscale, Inverted Grayscale, High-contrast, Hot Metal, Ironbow, Amber, Inverted Amber Blue-Red, Ironbow, Grayscale, Am		, Grayscale, Amber		
Ultra Contrast™ palettes	Blue-Red, Grayscale, Inverted Grayscale, High-contrast, Hot Metal, Ironbow, Amber, Inverted Amber	Blue-Red, Grayscale, Ironbow	-	-	
Hot/cold markers	Yes		_		
User definable spot markers	Three on camera a	and in SmartView®	in SmartView® only		
Centerpoint	Yes				
Centerbox (MIN/AVG/MAX)	Yes –				
Level and span control	Manual and auto				
Minimum span in auto mode	5 ℃				
Minimum span in manual mode	2.5 ℃				
Minimum IR focus distance	15.25 cm (6 in) 122 cm (48 in)				
Weight	0.726 kg (1.6 lb)				
Size	28.4 x 8.6 x 13.5 cm (11.2 x 3.4 x 5.3 in)				
LCD display	3.5 inch diagonal (portrait format)				
Visible camera	2 megapixel industrial-grade N/A			N/A	
Minimum parallax	~45.7 - 55.9 cm	~45.7 - 55.9 cm (~ 18 in - 22 in)		N/A	
IR-PhotoNotes™ annotation system	Yes (3 i	Yes (3 images)		=	
Laser pointer	Yes				
Torch	Yes —			_	
Electronic (cardinal) compass	Y	Yes –			
Emissivity correction	Yes				
Transmission correction	Yes –		-		
Background (reflected) compensation		Y	es		
Voice annotation (audio)	Yes (60 seconds) per image –				
Multi-mode video output	Streaming USB video output (infrared, visible and IR-Fusion modes)	, p			
Multi-mode video recording (standard avi w/ mpeg encoding)	Yes (AVI with MPEG encoding, up to 5 minutes)		-		
Multi-mode video recording (radiometric .is3)	Yes, radiometric .is3 for approx. 2.5 to 5 minutes depending upon thermal scene	-			
Memory review		thumbnail review			
Battery (field-replaceable, rechargeable)	Two One				
Battery life	4+ hours (each)*				
External battery charging base	Yes Optional (accessory)				
Charging power supply	Yes				
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^{*}Assumes 50% brightness of LCD



	Ti125	Ti110	Ti105	Ti100	
	Industrial-Commercial			General use	
Drop test	2 meter (6.5 feet)				
Ingress protection (IP) rating (IEC 60529)	IP 54				
Recommended Calibration cycle	Two-years				
Multifunction card reader	Included		_		
Memory storage	2 GB SD memory card				
Direct download capability	mini USB download direct to PC				
Operating temperature range	-10 °C to +50 °C (14 °F to 122 °F)				
Storage temperature range	-20 °C to +50 °C (-4 °F to 122 °F)				
Operating humidity	Operating and storage 10 % to 95 %, Non-condensing				
Vibration and shock	2G, IEC 68-2-26 and 25G, IEC 68-2-29				
Safety standards	CSA (US and CAN): C22.2 No. 61010-1-04, UL: UL STD 61010-1 (2nd Edition), ISA: 82.02.01				
C Tick	IEC/EN 61326-1				
EMI, RFI, EMC	EN61326-1; FCC Part 5				
User manuals	Czech, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish, Dutch, and Hungarian				
Standard warranty period	Two-years				
Extended warranty and service plans	Yes				

Ordering information

FLK-Ti105 30Hz	Industrial-Commercial Thermal Imager
FLK-Ti105 9HZ	Industrial-Commercial Thermal Imager
FLK-Ti110 30HZ	Industrial-Commercial Thermal Imager
FLK-Ti110 9HZ	Industrial-Commercial Thermal Imager
FLK-Ti125 30HZ	Industrial-Commercial Thermal Imager
FLK-Ti125 9HZ	Industrial-Commercial Thermal Imager
FLK-Ti100 9HZ	General Use Thermal Imager

Included with product

Thermal imagers are shipped with ac power adapter, lithium ion smart battery (Ti125 includes 2 each—other models 1 each), USB cable, SD memory card, hard carrying case, soft transport bag, adjustable hand strap (left- or right-handed use), printed users manual in English, Spanish, French, German and Simplified Chinese, all other manuals on CD-total of 18, SmartView® software and warranty registration card. Ti125 model also include a two-bay charging base and a multi-format USB memory card reader.

Optional:

FLK-TI-VISOR2 Sun visor

FLK-TI-TRIPOD2 Tripod mounting accessory

BOOK-ITP Introduction to Thermography Principles Book FLK-TI-SBC3 External charging base and power supply FLK-TI-SBP3 Extra lithium-ion rechargeable smart battery

TI-CAR CHARGER Thermal imager vehicle charger

Fluke Corporation

PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V. PO Box 1186, 5602 BD

Eindhoven, The Netherlands

For more information call: In the U.S.A. (800) 443-5853 or

Fax (425) 446-5116

In Europe/M-East/Africa +31 (0) 40 2675 200 or

Fax +31 (0) 40 2675 222 In Canada (800)-36-FLUKE or Fax (905) 890-6866

From other countries +1 (425) 446-5500 or

Fax +1 (425) 446-5116

Web access: http://www.fluke.com

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