

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

Technical Data



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 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—IR-Fusion® with AutoBlend™
 mode (Ti125 only)—Accurately identify potential issues by
 combining digital and IR images with AutoBlend. It blends digital
 and partially transparent IR images into a single information—
 filled image.
- Multi-mode video recording—focus-free video in visible light and infrared with full IR-Fusion. (Ti110 and Ti125 only).
- Easily communicate the location of problems with the Electronic Compass (8-Point Cardinal).

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



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.



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	Ti100
IR resolution (FPA size)	Industrial-Commercial General use 160 x 120 FPA Uncooled Microbolometer		
Spectral band	7.5 µm to 14 µm (long wave)		
Capture or refresh rate	9 Hz or 30 Hz versions 9 Hz		
NETD (Thermal sensitivity)	≤ 0.10 °C at 30 °C target temp (100 mK)		
FOV (Field of view)	22.5 °H x 31 °V		
IFOV (Spatial resolution)	3.39 mRad		
Temperature measurement range	-20 °C to +350 °C (-4 °F to +662 °F)	-20 °C to +250 °C	(-4 °F to +482 °F)
(not calibrated below -10 °C)			
Temperature measurement accuracy Focus mechanism	 	r 2 % (at 25 °C nominal, whichever is	-
IR-Fusion technology	IR-OptiFlex™ PIP, FULL IR, FULL VISIBLE, AutoBlend	PIP, FULL IR, FULL VISIBLE	Focus-free 1.2 m (4 ft) and beyond No, full IR only
	High temperature, low temperature,	FIF, FULL IN, FULL VISIBLE	No, full in only
Color alarms	isotherm	High temperature	_
Standard palettes	Blue-Red, Grayscale, Inverted Grayscale, High-contrast, Hot Metal, Ironbow, Amber, Inverted Amber Blue-Red, Grayscale, Ironbow, 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 and in SmartView® in SmartView® only		
Centerbox (MIN/AVG/MAX)	Yes -		
Level and span control	Manual and auto		
Minimum span in auto mode	5 °C		
Minimum span in manual mode Minimum IR focus distance	2.5 °C 15.25 cm (6 in) 1.2 m (4 ft)		
Weight	15.25 cm (6 in) 1.2 m (4 ft) 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		
Minimum automatic parallax correction	~18-22 inches		N/A
IR-PhotoNotes™ annotation system	Yes (3 images) —		
Laser pointer	Yes		
Torch	Yes -		
Electronic (cardinal) compass	Yes -		
Emissivity correction	Yes		
Transmission correction	Yes –		
Background (reflected) compensation	Yes Vog (CO secondal nev image		
Voice annotation (audio)	Yes (60 seconds) per image — Streaming USB video output (infrared,		
Multi-mode video output Multi-mode video recording	visible and IR-Fusion modes)		<u>-</u>
(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		
External battery charging base	4+ hours (each)* Yes Optional (accessory)		
Charging power supply	ies	Yes	accessory
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 C Tick	CSA (US and CAN): C22.2 No. 61010-1-04, UL: UL STD 61010-1 (2nd Edition), ISA: 82.02.01 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		
piulo	105		

^{*}Assumes 50% brightness of LCD



Ordering information

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

Tripod mounting accessory FLK-TI-TRIPOD2

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

TI-CAR CHARGER Thermal imager vehicle charger

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