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## **Technical Data**

# TiR125, TiR110 Building Diagnostic and the Ti100 General Use Thermal Imagers

### The lightest, most-rugged, easiest-to-use professional thermal imagers around.

Whether you're searching for air leaks, hidden moisture, construction defects, or other building issues, a Fluke thermal imager delivers a huge competitive advantage—it allows you to work faster and more efficiently, and document your findings.

### **Key features**

- Exclusive IR-OptiFlex<sup>\*\*</sup> focus system—ensures that images are in good focus from 1.2 m (4 ft) and beyond for optimum image clarity and scanning convenience. For shorter distances change to manual mode with the touch of a finger (TiR110 and TiR125).
- Always have references handy—IR-PhotoNotes<sup>™</sup> annotation system—Quickly identify and keep track of inspection locations by adding digital images of important information and surrounding areas (TiR110 and TiR125).
- Find problems faster and easier—IR-Fusion<sup>®</sup> with AutoBlend<sup>™</sup> mode (TiR125 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 (TiR110 and TiR125 only).
- Easily communicate the location of problems with the Electronic Compass (8-Point Cardinal).

Spend less time in the field and more time growing your business with these new Fluke thermal imagers.



TiR110

Building problems, defects and

Energy audit, building inspection,

Restoration, water damage,

general maintenance

and weatherization

and roofing

TiR 125

Ti100

#### **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.

Ne

#### 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.

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### **Detailed specifications**

	TiR125	TiR110	Ti100
	Buidling d	liagnostics	General use
IR resolution (FPA size)		60 x 120 FPA Uncooled Microbolomete	er
Spectral band		7.5 μm to 14 μm (long wave)	
Capture or refresh rate		9 Hz	
NETD (Thermal sensitivity)	≤ 0.08 °C at 30 °C	target temp (80 mK)	$\leq$ 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	1
Temperature measurement range		+150 °C	-20 °C to + 250 °C
(not calibrated below -10 °C)	· · · · · ·	+302 °F)	(-14 °F to 482 °F)
Temperature measurement accuracy		or 2 % (at 25 °C nominal, whichever is	<u> </u>
Focus mechanism	*	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	No, full IR only
Color alarms	High termperature, low temperature (dewpoint), and isotherm	Low temperature (dewpoint)	_
Standard palettes		ed Grayscale, High–contrast, mber, Inverted Amber	Blue-Red, Ironbow, Grayscale, Amber
Ultra Contrast <sup>∞</sup> 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		and in SmartView®	in SmartView® only
Centerbox (MIN/AVG/MAX)	Yes	-	
Level and span control		Manual and auto	
Minimum span in auto mode		o °C	5 °C
Minimum span in manual mode	-	D° (	2.5 °C
Minimum IR focus distance	15.25 c	m (6 in)	1.2 m (4 ft)
Weight		0.726 kg (1.6 lb)	
Size	2	8.4 x 8.6 x 13.5 cm (11.2 x 3.4 x 5.3 ii	n)
LCD display		3.5 inch diagonal (portrait format)	
Visible camera		ndustrial-grade	N/A
Minimum parallax	~18-22	2 inches	N/A
IR-PhotoNotes™ annotation system	Yes (3 images) -		_
Laser pointer		Yes	
Torch	Ye	es	_
Electronic (cardinal) compass	Yes —		_
Emissivity correction		Yes	
Transmission correction	Ye	es	_
Background (reflected) compensation	Yes		
Voice annotation (audio)	Yes (60 secon	ds) per image	_
Multi-mode video output	Streaming USB video output	-	_
Multi-mode video recording (standard AVI with MPEG encoding)	Yes (AVI with MPEG encoding)		_
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	ļ	ne
Battery life		4+ hours (each)*	
External battery charging base	Included		accessory)
Charging power supply		Yes	
Drop test		2 meter (6.5 feet)	
Ingress protection (IP) rating (IEC 60529)		IP 54	
Est. calibration cycle		Two-years	
Multifunction card reader	Included		_
Memory storage	2 GB SD memory card		
Direct download capability	mini USB direct download		
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		

2 Fluke Corporation TiR125, TiR110 Building Diagnostic and Ti100 General Use Thermal Imagers



### **Ordering information**

FLK-TiR110 9HZ	Building Diagnostics Thermal Imager
FLK-TiR125 9HZ	Building Diagnostics Thermal Imager
FLK-TI100 9HZ	General Use Thermal Imager

#### **Included with product**

Thermal imagers are shipped with ac power adapter, lithium ion smart battery (TiR125 includes two each—other models one 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<sup>®</sup> software and warranty registration card. TiR125 model also includes 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

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Fluke: FLK-TiR110 9HZ FLK-TiR125 9HZ