

TiR125/TiR110/Ti100 Building Diagnostic Thermal Imagers

FLUKE®

New



TiR125



TiR110



Ti100



Building diagnostics made easy

Technology isn't working for you if it's slowing you down. Fluke proudly introduces five new thermal imagers specifically designed to help you do more in less time, while being at home in the harshest of environments. A project that might normally take an hour can now be done in minutes. Our newest imagers are the lightest, most rugged, easiest-to-use professional imagers you can buy.

IR-OptiFlex™ focus system

Discover issues significantly faster 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!

IR-Fusion® technology

Enjoy the industry's best point-and-shoot IR-Fusion camera. Fluke patented technology blends digital and infrared images into a single image to precisely document problem areas.

Rugged one-hand operation

Experience the most rugged and reliable, lightweight professional camera around. One-touch focus, laser pointer, and torch. Point-and-shoot simplicity. No one builds more rugged, ergonomic tools than Fluke.

Multi-mode video recording

Troubleshoot with the industry's only thermal imager that records focus-free video in visible light and infrared with full IR-Fusion capabilities. Monitor processes over time, easily create infrared video reports, and troubleshoot.

IR-PhotoNotes™ annotation system

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 (TiR110 and TiR125).

Electronic compass

Make sure you and others know the location of the problem. Compass readings easily appear in images and reports.

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Specifications

	Fluke TiR125	Fluke TiR110	Fluke Ti100
	Building diagnostics		General
Thermal imaging performance			
IR resolution (FPA size)	160 x 120 FPA Uncooled Microbolometer		
Field of view (FOV)	22.5 °H x 31 °V		
Spatial resolution (IFOV)	3.39 mRad		
Thermal sensitivity (NETD)	≤ 0.08 °C at 30 °C target temp (80 mK)		≤ 0.10 °C at 30 °C target temp (100 mK)
Minimum span in auto mode	2.5 °C		5 °C
Minimum span in manual mode	2.0 °C		2.5 °C
Minimum IR focus distance	15.25 cm (6 in)		1.2 m (4 ft)
Focus mechanism	IR-OptiFlex™ focus system		Focus-free 1.2 m and beyond
IR-Fusion® technology	PIP, FULL IR, FULL VISIBLE, AutoBlend	PIP, FULL IR, FULL VISIBLE	No, full IR only
Color alarms	High temperature, low temperature (dewpoint), and isotherm	Low temperature (dewpoint)	-
Visual imaging performance			
Visible camera	2 megapixel industrial-grade		n/a
LCD display	3.5 inch diagonal (portrait format)		
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		
IR-PhotoNotes™ annotation system	Yes (3 images)		-
Laser pointer	-	Yes	-
Torch	Yes	-	-
Electronic (cardinal) compass	Yes	-	-
Emissivity correction	-	Yes	-
Transmission correction	Yes	-	-
Video			
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	-	-
Temperature measurement			
Temperature measurement range (not calibrated below -10° C)	-20 °C to +150 °C		-20 °C to +250 °C
Accuracy	± 2 °C or 2 % (at 25 °C nominal, whichever is greater)		
Image presentation			
Standard palettes	Blue-Red, Grayscale, Inverted Grayscale, High-contrast, Hot Metal, Ironbow, Amber, Inverted Amber		Blue-Red, Ironbow, Grayscale, Amber
Ultra Contrast™ palettes	Blue-Red, Grayscale, Inverted Grayscale, High-contrast, Hot Metal, Ironbow, Amber, Inverted Amber	Blue-Red, Grayscale, Ironbow	-
Voice Annotation			
Voice annotation	Yes (60 seconds) per image		-
Image and data storage			
Memory storage	2 GB SD memory card		
Power			
Battery (field-replaceable, rechargeable)	Two	One	
Battery life	4+ hours (each) (assumes 50% brightness of LCD)		

Included Accessories

SmartView® software
 AC power adapter
 Lithium ion smart battery
 USB cable
 2 GB SD memory card
 Hard carrying case
 Soft transport bag
 Adjustable hand strap
 User manual
 Two-bag charging base and multi-format USB memory card reader (Ti125 only)

Ordering Information

Fluke TiR125 Building Diagnostics Thermal Imager
 Fluke TiR110 Building Diagnostics Thermal Imager
 Fluke Ti100 General Use Thermal Imager

Water and dust resistant: IP54
Size (HxWxD): 284 x 86 x 135 mm
Weight: 0.726 kg
Two Years Warranty

Recommended Accessories



Ti-Car Charger
Car charger



FLK-TI-SPB3
Extra battery



FLK-TI-SBC3
Charging base