

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Ti125, Ti110, Ti105, Ti100, Ti95, Ti90, TiR125, TiR110 and TiR105 Thermal Imagers The Fluke Performance Series

Technical Data



Fluke Thermal Imagers Experience. Performance. Confidence.

The Fluke Performance Series Thermal Imagers can save you time and money by finding potential problems before they become costly failures.

- Precisely blended visual and infrared images with crucial details to assist in identifying potential problems—IR-Fusion® technology with AutoBlend™ mode1
- Easily see potential problems with the large 3.5 inch LCD, a full 32% larger than many competitive models.
- Automatically focus from 1.2 m (4 ft) and beyond with IR-OptiFlex™ Focus System and as close as 15 cm (6 in) in manual mode1
- Building diagnostic models available-get 20% better thermal sensitivity than standard Ti125, Ti110, and Ti105 models (80 mK) due to a lower temperature range with TiR models (TiR125, TiR110, TiR105)

SUPERIOR IMAGE QUALITY

SPATIAL RESOLUTION

Ti125, Ti110, Ti105, Ti100 3.39 mRad

Ti95, Ti90 5.6 mRad

RESOLUTION

Ti125, Ti110, Ti105, Ti100 160x120 (19,200 pixels)

80x80 (6,400 pixels)

Ti90

80x60 (4,800 pixels)

FIELD OF VIEW

Ti125, Ti110, Ti105, Ti100 22.5 °H x 31 °V

Ti95

26 °H x 26 °V

Ti90

19.5 °H x 26 °V

EXTENSIVE SD MEMORY SYSTEM Removable SD memory card

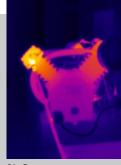
IR-Fusion® Technology with **AutoBlend™ Mode**



Precisely blended visual and infrared images with crucial details to assist in identifying potential problems.







Air Compressor -Full Infrared



Air Compressor -

¹Included features vary by model; see table for model specifications.

Detailed specifications



	Ti125 / TiR125	Ti110 / TiR110	Ti105 / TiR105	Ti100	Ti95	Ti90			
Key features									
IFOV (spatial resolution)		3.39	5.6 mRad						
Detector resolution	160x120 (19,200 pixels)				80x80 (6,400 pixels)	80x60 (4,800 pixels)			
Field of view		22.5 °H	26 °H x 26 °V	19.5 °H x 26 °V					
Wireless connectivity									
CNX™ Wireless System		Yes (where	e available)			_			
IR-Fusion [®] technology									
AutoBlend™ mode	Mid IR ar	d Min IR	Mid IR		_				
Picture-In-Picture (PIP)	Max IR PIP, Mid IR PIP, Min IR PIP		Max IR PIP, Mid IR PIP	_	Max IR PIP	_			
Focus system			d focus Fixed focus tance, 122 cm (48 in) Minimum focus distance, 46 cm (18 in)						
Ruggedized display	3.5 inch diagonal (portrait format)								
Rugged, ergonomic design for one-handed use	Yes								
Thermal sensitivity (NETD)	Standard models TiR models: ≤	andard models: ≤ 0.10 °C at 30 °C target temp (100 mK) TiR models: ≤ 0.08 °C at 30 °C target temp (80 mK)		≤ 0.10 °C at 30 °C target temp (100 mK) 30 °C targe		≤ 0.15 °C at 30 °C target temp (150 mK)			
Temperature measurement range (not calibrated below –10 °C)	-20 °C to +350 °C (-4 °F to +662 °F) (TiR125: -20 °C to +150 °C (-4 °F to +302 °F))	-20 °C to +250 °C (TiR110 and TiR10: (-4 °F to	t to +250 °C (-4 °F to +482 °F)						
Level and span	Smooth auto and manual scaling								
Fast auto toggle between manual and auto modes	Yes								
Fast auto-rescale in manual mode	Yes								
Minimum span (in manual mode)			2.5	S °C					
Minimum span (in auto mode)			5	°C					
Built-in digital camera (visible light)	2 meg	apixel industrial perfor	2 megapixel industrial performance						
Frame rate	30 Hz or 9	Hz versions (TiR models	s: 9 Hz only)	9 Hz only					
Laser pointer		Y	es			_			
LED light (torch)	Yes –								
Data storage and image capture									
Extensive SD memory system		Removable S	SD memory card; direct	download via USB-to-P	C connection				
Image capture, review, save mechanism		One	-handed image capture,	review, and save capal	bility				
File formats image		Non-1 No analys	radiometric (.bmp) or (.jp sis software required for	eg) or fully-radiometric r non-radiometric (.bmp,	(.is2); , .jpg) files				
Memory review	Thumbnail view navigation and review selection								
Software	SmartView» software and SmartView» Mobile App—full analysis and reporting software								
Export file formats with SmartView* software	BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF, and TIFF								
Voice annotation	60 seconds maximum recording time per image; reviewable playback on camera			-	_				
IR-PhotoNotes™	Yes (3 images)			-	_				
Standard video recording	Yes (AVI with MPEG encoding, up to 5 minutes)			-	_				
Radiometric video recording	Yes			_					
File formats video	Non-radiometric (MPEG - encoded .AVI) and fully- radiometric (.IS3)	Non-radiometric (MPEG - encoded .AVI)		-	-				
Streaming video (remote display)	Streaming via USB to PC								
Battery									
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five-segment LED display to show charge level One lithium ion smart battery pack with five-segment LED display to show charge level								
Battery life	Fo	Four+ hours continuous use per battery pack (assumes 50 % brightness of LCD and average usage)							
Battery charge time			2.5 hours to	full charge					

Detailed specifications



	Ti125 / TiR125	Ti110 / TiR110	Ti105 / TiR105	Ti100	Ti95	Ti90			
Battery		2000, 2000							
Battery charging system	Two-bay battery charger or in- imager charging. Optional 12 V automotive charging adapter In-imager charging. Optional 12 V automotive charging adapter								
AC operation		AC operation	with included power su	pply (100 V AC to 240 V	AC, 50/60 Hz)				
Power saving			User selectable sleep	and power off modes					
Temperature measurement									
Accuracy		± 2	2 °C or 2 % (at 25 °C non	ninal, whichever is grea	ter)				
On-screen emissivity correction	Yes (both value and table)								
On-screen reflected background temperature compensation	Yes								
On-screen transmission correction	Yes –								
Color palettes									
Standard palettes	8: Ironbow, Blue-Red, High-Contrast, Blue-			4: Ironbow, Blue-Red, Amber, Grayscale	6: Ironbow, Blue- Red, High-Contrast, Amber, Hot Metal, Grayscale	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	3: Ironbow Ultra, Blue-Red Ultra, Grayscale Ultra		_					
General specifications									
Color alarms (temperature alarms)	High temperature, low temperature, isotherm	High temperature, low temperature	High temperature		_				
Infrared spectral band	7.5 μm to 14 μm (long wave) 9 μm to 15 μm (long wave)								
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 %, r	non-condensing					
Center-point temperature measurement			Y	es					
Spot temperature	Hot and cold spot markers				Hot and cold spot markers	_			
User-definable spot markers	3 user definab	le spot markers		-	_	l			
Center box	Expandable-contractible measurement box with MIN-MAX-AVG temp			-	Fixed-size measure- ment box with MIN-MAX-AVG temp	_			
Safety standards	CSA: C22.2 No. 61010-1-04, UL: UL STD 61010-1 (2nd Edition), ISA: 82.02.01								
Electromagnetic compatibility	EN 61326-1:2006 IEC 61326-1:2005								
C Tick	IEC/EN 61326-1								
US FCC	EN61326-1; FCC Part 5								
Vibration	2G, IEC 68-2-6								
Shock	25G, IEC 68-2-29								
Drop			Engineered to withstan	d 2 meter (6.5 feet) drop)				
Size (H x W x L)				m (11.2 in x 3.4 in x 5.3					
Weight (battery included)	0.73 kg (1.6 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)								
·	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese,								

Note: Specifications are based on models with serial number starting with 1406 or later. Specifications may differ on earlier models.



Ordering information

FLK-Ti125 9HZ Industrial-Commercial Thermal Imager FLK-Ti110 9HZ Industrial-Commercial Thermal Imager FLK-Ti105 9HZ Industrial-Commercial Thermal Imager FLK-Ti100 9HZ General Use Thermal Imager FLK-Ti95 9HZ General Use Thermal Imager FLK-Ti90 9HZ General Use Thermal Imager

Included with product

Thermal imagers are shipped with ac power adapter, universal AC adapters, lithium ion smart battery (Ti125 includes 2 each—other models 1 each), USB cable, SD memory card, hard carrying case (Til25, Til10, Til05, Ti100 only), soft transport bag, and adjustable hand strap (except Ti90). The users manual and SmartView® software in supported languages are available for free download from Fluke.com. Ti125 models also include a two-bay battery charger and a multi-format USB memory

Optional

FLK-TI-VISOR2 Sun Visor FLK-TI-TRIPOD2 Tripod Mounting Accessory **BOOK-ITP** Introduction to Thermography Principles Book FLK-TI-SBP3 Additional Smart Battery FLK-TI-SBC3 Additional Smart Battery Charger TI-CAR CHARGER Car Charger

CNX wireless modules

FLK-CNX i3000 iFlex™ AC Current Clamp Module FLK-CNX a3000 AC Current Clamp Module FLK-CNX v3000 AC Voltage Module FLK-CNX t3000 K-Type Temperature Module

RF connection time (binding time) may take up to 1 minute.





The Professional Series

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.

Fluke. Keeping your world up and running.®

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