

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

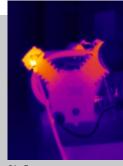
IR-Fusion® Technology with **AutoBlend™ Mode**



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	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 available)								
IR-Fusion* technology									
AutoBlend™ mode	Mid IR and 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	IR-OptiFlex™ focus system Fixed foc Minimum focus distance, 15 cm (6 in) Minimu m focus distanc					focus tance, 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: ≤ 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) ≤ 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))	F to +662 °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 °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		9 Hz only					
Laser pointer	Yes –								
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 capability								
File formats image	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); No analysis software required for non-radiometric (.bmp, .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	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										
Battery charging system	Two-bay battery charger or in- imager charging. Optional 12 V automotive charging adapter In-imager 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 °C or 2 % (at 25 °C nominal, whichever is greater)									
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, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted			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 %, non-condensing									
Center-point temperature measurement			Ye	es						
Spot temperature	Hot and cold spot markers		-		Hot and cold spot markers	_				
User-definable spot markers	3 user definabl	e spot markers		-	_					
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 withstand 2 meter (6.5 feet) drop									
Size (H x W x L)	28.4 cm x 8.6 cm x 13.5 cm (11.2 in x 3.4 in x 5.3 in)									
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)									
Supported languages	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish									

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.®

Fluke Europe B.V.

P.O. Box 1186 5602 BD Eindhoven The Netherlands Web: www.fluke.co.uk

For more information call:

In Europe/M-East/Africa +31 (0)40 267 5100 or Fax +31 (0)40 267 5222

Modification of this document is not permitted without written permission from Fluke Corporation.

Fluke (UK) Ltd.

52 Hurricane Way Norwich, Norfolk NR6 6JB United Kingdom

Tel.: +44 (0) 20 7942 0700 Fax: +44 (0) 20 7942 0701 E-mail: industrial@uk.fluke.nl Web: www.fluke.co.uk

©2014 Fluke Corporation. All rights reserved. Data subject to alteration without notice. 12/2014 Pub ID: 13300-eng

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Memory Cards category:

Click to view products by Fluke manufacturer:

Other Similar products are found below:

SQF-ISDS1-8G-21C USDCOEM-32GB CAE1B256GTFDWB00EAA0 CAE1B128GTFDWB00EAA0 LMEX1L128GG2 LMEX1L256GG2 LNEX1L016GG4 LNEX1L032GG4 LNEX1L064GG4 LMEX1L016GG2 LMEX1L032GG2 LMEX1L064GG2 SDSDQAF4-256G-I AP-CF016GKBNS-ETNRG CFLSH-002PDG CFLSH-016SDG MS-C6-8G HMC-EF283 SDCFXPS-032G-X46 SDCFXSB-128G-G46 5788667-1-CUT-TAPE RP-SMLE32DA1 SDC4GDPGRB 2729389 VTDCFBPI004G SDSDAF3-016G-XI 2403484 VTDS41PI008G SDSDAF3-016G-I VSFCS2CC060G SDSDAF3-032G-XI SDSDAD-016G SDSDAF3-008G-XI SDSDAF3-008G-I VTDCFBPI008G M1A0-0160R12 M1A0-0320R12 M1A4-0160R12 M1A4-0320R12 M1AA-0160R12 M1AA-0640R12 M1AA-1280R12 SDCFXPS-256G-X46 SDSDXPK-128G-GN4IN SDSDXXG-032G-GN4IN SDSDXXY-064G-GN4IN SDSDXXY-128G-GN4IN SDSDXXY-128G-GN4IN