### Fluke Ti125 Specs Provided by www.AAATesters.com



### Ti125, Ti110, Ti105, Ti100, Ti95, Ti90, TiR125, TiR110 and TiR105 Infrared Cameras The Fluke Performance Series



### **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)

**Ti95** 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 and wireless SD Card (where available)



# **Technical Data**

## Now compatible with Fluke Connect<sup>™</sup> Mobile App<sup>1</sup>

### Fluke Infrared Cameras Experience. Performance. Confidence.

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

- Fluke Connect<sup>™</sup> ShareLive<sup>™</sup> video call lets you collaborate with others, so they see what you see. Get approvals without leaving the field<sup>1</sup>
- Precisely blended visual and infrared images with crucial details to assist in identifying potential problems – IR-Fusion<sup>®</sup> technology with AutoBlend<sup>™</sup> mode<sup>2</sup>
- 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<sup>™</sup> Focus System and as close as 15 cm (6 in) in manual mode<sup>2</sup>
- Building diagnostic models get 20% better thermal sensitivity (80 mK) with a lower temperature range with TiR models (TiR125, TiR110, TiR105) compared to standard Ti125, Ti110 and Ti105 models

# IR-Fusion® Technology with AutoBlend™ Mode



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



Air Compressor -

Full Visible



Air Compressor – Full Infrared



Air Compressor – AutoBlend™ Mode

<sup>1</sup>Within your provider's wireless service area; Fluke Connect<sup>™</sup> is not available in all countries. <sup>2</sup>Included features vary by model; see table for model specifications.

# **Detailed specifications**

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	Ti125/TiR125	Ti110/TiR110	Ti105/TiR105	Ti100	Ti95	Ti90		
Key features								
IFOV (spatial resolution)	3.39 mRad				5.6 mRad			
Detector resolution		160x120 (19	),200 pixels)		80x80 (6,400 pixels)	80x60 (4,800 pixels)		
Field of view		22.5 °H	x 31 °V		26 °H x 26 °V	19.5 °H x 26 °V		
Wireless connectivity	Yes							
Fluke Connect™ app compatible		Yes	, with included wireless	s SD card (where availa	ble)			
CNX™ Wireless System		Yes (where	e available)			_		
IR-Fusion <sup>®</sup> 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 Minimum focus distance, 15 cm (6 in)		Fixed Minimum focus dista			focus tance, 46 cm (18 in)		
Ruggedized display			3.5 inch diagonal	l (portrait format)				
Rugged, ergonomic design for one-handed use			Ye	es				
Thermal sensitivity (NETD)		Standard models: $\leq 0.10$ °C at 30°C target temp (100 mK)TiR models: $\leq 0.08$ °C at 30 °C target temp (80 mK)			arget temp (100 mK)	≤ 0.15 °C at 30 °C target temp (150 mK)		
Temperature measurement range (not calibrated below -10 $^{\circ}\mathrm{C}$ )	<b>Ti125:</b> -20 °C to +350 °C (-4 °F to +662 °F) <b>TiR125:</b> -20 °C to +150 °C (-4 °F to +302 °F)	(-4°F to	-20 °C to +250 °C +482 °F) 5: -20 °C to +150 °C +302 °F)	-20 °C	o +250 °C (-4 °F to +482 °F)			
Level and span		Smooth auto and manual scaling						
Fast auto toggle between manual and auto modes			Ye	95				
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 megapixel industrial performance None - IR Only 2 megapixel industrial performance							
Frame rate	30 Hz or 9 Hz versions (TiR models: 9 Hz only)				9 Hz only			
Laser pointer	Yes –					_		
LED light (torch)	Yes –							
Data storage and image capture								
Extensive SD memory system	Removal	ole SD memory card and	wireless SD card (wher	e available); direct dow	vnload via USB-to-PC co	onnection		
Image capture, review, save mechanism		One-	-handed image capture,	review, and save capal	bility			
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, Fluke Connect™ (where available), 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 charge level							

# **Detailed specifications**

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	Ti125/TiR125	Ti110/TiR110	Ti105/TiR105	Ti100	Ti95	Ti90			
Battery									
Battery charge time			2.5 hours to	o full charge					
Battery charging system	Two-bay battery charger or in- imager charging. Optional 12 V automotive charging adapter	ng. Ng. V In-imager charging. Optional two-bay battery charger or optional 12 V automotive charging adapter							
AC operation		AC operation	with included power suj	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 nom	ninal, whichever is grea	iter)				
On-screen emissivity correction			Yes (both val	ue and table)					
On-screen reflected background temperature compensation			Ye	es					
On-screen transmission correction	Y	es							
Color palettes									
Standard palettes		bow, Blue-Red, High-Co ed, Hot Metal, Grayscal		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		Yes							
Spot temperature	Hot and cold spot markers				Hot and cold spot markers	_			
User-definable spot markers	3 user definable spot markers –								
Center box		adable-contractible measurement box			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 30HZ Industrial-Commercial Thermal Imager FLK-Ti125 9HZ Industrial-Commercial Thermal Imager FLK-Ti110 30HZ Industrial-Commercial Thermal Imager FLK-Ti105 30HZ 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 FLK-Ti81 9HZ Building Diagnostics Thermal Imager FLK-Ti8110 9HZ Building Diagnostics Thermal Imager FLK-Ti8110 9HZ Building Diagnostics 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, Fluke Connect<sup>™</sup> wireless SD card (wherever Fluke Connect<sup>™</sup> is available), hard carrying case (Ti125, Ti110, Ti105, Ti100 only), soft transport bag, and adjustable hand strap (except Ti90). The users manual and SmartView<sup>®</sup> 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 card reader.

#### Optional

FLK-FC-SD 8GB Fluke Connect Wireless SD Card 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

#### **Fluke Connect Kits**

FLK-TI125 30HZ/FCB Ti125 Thermal Imager, (3) a3001 FC iFlex Modules, 805 FC FLK-TI105 30HZ/FCA Ti105 Thermal Imager, 3000 FC DMM, a3001 FC iFlex Module FLK-TI95 9HZ/FCA Ti95 Thermal Imager, 3000 FC DMM, a3001 FC iFlex Module FLK-TI95 9HZ/FCC Ti95 Thermal Imager, (1) a3001 FC iFlex Module

#### **Fluke Connect modules**

FLK-a3000 FC AC Current Clamp Module FLK-a3001 FC iFlex™ AC Current Clamp Module FLK-a3002 FC AC/DC Current Module FLK-v3000 FC AC Voltage Module FLK-v3001 FC DC Voltage Module FLK-t3000 FC K-Type Temperature Module

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



# FLUKE CONNECT

### See it. Save it. Share it. All the facts, right in the field.

Fluke Connect<sup>™</sup> with ShareLive<sup>™</sup> video call is the only wireless measurement system that lets you stay in contact with your entire team without leaving the field. The Fluke Connect<sup>™</sup> mobile app is available for Android<sup>™</sup> (4.3 and up) and iOS (4s and later) and works with over 20 different Fluke products—the largest system of connected test tools in the world. And more are on the way. Go to the Fluke website to find out more.

#### Download the app at:



For a high performance, feature rich infrared camera that produces consistently in-focus images with a touch of a button EVERY, SINGLE, TIME, consider the Professional Series with LaserSharp<sup>®</sup> Auto Focus.

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