

Ti125, Ti110, Ti105, Ti100, Ti95 and Ti90 Infrared Cameras

The Fluke Performance Series



Technical Data

Now compatible with Fluke Connect™ Mobile App

Fluke Infrared Cameras Experience. Performance. Confidence.

The Fluke Ti125, Ti110, Ti105, Ti100, Ti95 and Ti90 Infrared Cameras can save you time and money by finding potential problems before they become costly failures.

- Fluke Connect™ ShareLive™ video call lets you collaborate
 with others, so they see what you see. Get approvals without leaving
 the field
- Brilliantly detailed quality images. Up to 84% better spatial resolution and up to a 32% larger screen than competitive models*
- Precisely blended visual and infrared images with crucial details to assist in identifying potential problems – IR-Fusion[®] technology with AutoBlend[™] mode (Ti125, Ti110, Ti105 (Mid-IR Mode))
- 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 mode



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)

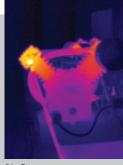
IR-Fusion® Technology with AutoBlend™ Mode



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

^{*}Compared to industrial hand-held infrared cameras in the same price range, based on MSRP as of August 28, 2014.

Detailed specifications



	Ti125	Till0	Ti105	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	Yes									
Fluke Connect™ app compatible	Yes, with included wireless SD card (where available)									
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 Minimum focus distance, 15 cm (6 in)		Fixed Minimum focus dista		Fixed focus Minimum focus distance, 46 cm (18 in)					
Ruggedized display			3.5 inch diagona	l (portrait format)						
Rugged, ergonomic design for one-handed use	Yes									
Thermal sensitivity (NETD)		≤ 0.10 °		≤ 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)									
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	2 megapixel indu	strial performance							
Frame rate	30 Hz or 9 Hz versions				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 (when	e available); direct dow	nload via USB-to-PC c	onnection				
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, 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 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	Ti110	Ti105	Ti100	Ti95	Ti90				
Battery	11120	11110	11100	11100	1100	1130				
Battery charging system	Two-bay battery charger or in- imager charging. Optional 12 V automotive charging adapter In-imager charging adapter 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	Y	es		-	_					
Color palettes										
Standard palettes	8: Ironbow, Blue-Red, High-Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted 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	Yes									
Spot temperature	Hot and cold spot markers		_		Hot and cold spot markers	_				
User-definable spot markers	3 user definable 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 cameras 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-Ti110 9HZ 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

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™ wireless SD card (wherever Fluke Connect™ is available), hard carrying case (Ti125, Ti110, Ti105, Ti100 only), soft transport bag, and adjustable hand strap (except Ti90). The users manual and SmartView® software in supported languages are included with the Ti125, Ti110, Ti105, and Ti100. With Ti95 and Ti90, the manual and SmartView® software 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-T195 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.





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

Fluke Connect™ with ShareLive™ 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™ mobile app is available for Android™ (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:





Smart phone wireless service and data plan not included with purchase.



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® Auto Focus.

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