

Ti125, Ti110, Ti105, Ti100, Ti95 and Ti90 Industrial-Commercial Infrared Cameras



SUPERIOR IMAGE QUALITY

SPATIAL RESOLUTION Ti125, Ti110, Ti105, Ti100 *3.39 mRad* Ti 95, 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 8Gb SD memory card and 8 Gb wireless SD Card (where available)



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 than other competitive models* and view on a 32 % larger screen
- 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
- Instantly **improve thermal sensitivity from 100 mK to 80 mK** when industrial, electrical and building application flexibility is needed with TiR[™] mode–2 cameras in 1

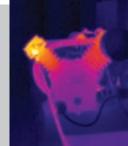
IR-Fusion[®] Technology with AutoBlend[™] Mode



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



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 May 1, 2014.

Detailed specifications



	Ti125	Ti110	Ti105	Ti100	Ti95	Ti90			
Key features									
IFOV (spatial resolution)		3.39	5.6 mRad						
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 wireles	s SD card (where availa	ble)				
CNX™ Wireless System		Yes (where	e available)			-			
IR-Fusion [®] technology									
AutoBlend™ mode	Ye	es	Yes (Mid IR Mode)		_				
Picture-In-Picture (PIP)	Ye	es	PIP (1.2 m (4 ft) to 4.6 m (15 ft))	-	PIP (46 cm (18 in) and beyond)	_			
Focus system	IR-OptiFlex™ 15 cm (6 in)			l focus n) and beyond	Fixed focus 46 cm (18 in) and beyond				
Ruggedized display	3.5 inch diagonal (portrait format)								
Rugged, ergonomic design for one-handed use	Yes								
Thermal sensitivity (NETD)	≤ 0.10 °C at 30 °C target temp (100 mK) ≤ 0.1 30 °C ta (15								
Enhanced Sensitivity w/TiR $^{\text{\tiny TM}}$ mode	≤ 0.08	°C at 30 °C target temp	(80mK)		—				
Temperature measurement range (not calibrated below -10 $^{\circ}\mathrm{C})$	-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	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	9 Hz or 30 Hz versions 9 Hz only								
Laser Pointer		Y	es		-	-			
Torch		Y	_						
Data storage and image capture									
Extensive SD memory system	Removable 8 Gb SD memory card and 8 Gb wireless SD card (where available); direct download via USB-to-PC connection								
Image capture, review, save mechanism		One	-handed image capture	, review, and save capa	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]	'humbnail view naviga	tion and review selectio	n				
Software	Smart	View [®] software, Fluke	Connect™, and SmartVi	ew* Mobile App—full an	alysis and reporting so	tware			
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 i	Yes (3 images)			_				
Standard video recording	Yes (AVI with M up to 5 r		_						
Radiometric video recording	Yes			_					
Streaming video	Streaming via USB to PC		1	-					
File formats video	Non-radiometric (MPEG - encoded .AVI) and fully- radiometric (.IS3)	Non-radiometric (MPEG – encoded .AVI)	-						
Battery									
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five-segment LED display to show charge level	One lith	ium ion smart battery p	ack with five-segment I	.ED display to show cha	rge level			
Battery life	Fo	ur+ hours continuous u	se per battery pack (ass	sumes 50 % brightness	of LCD and average usa	ge)			
			2.5 hours to	full abarra					

Detailed specifications

	Ti125	Ti110	Ti105	Ti100	Ti	95	Ti90		
Battery									
AC battery charging system	Two-bay ac battery charger (110 V AC to 220 V AC, 50/60 Hz) (included), or in-imager charging. AC mains adapters included in 9 Hz versions. Optional 12 V automotive charging adapter In-imager charging. AC mains adapters included in 9 Hz versions. Optional 12 V automotive charging adapter.								
AC operation	AC or	peration with included	power supply (110 V AC	to 220 V AC, 50/60 Hz).	. AC mains a	dapters incl	uded.		
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 num	ber and table)					
On-screen reflected background tem- perature compensation	Yes								
On-screen transmission correction	Ye	es		-	_				
Color Palettes									
Standard Palettes	8: Ironbow, Blue-F Amber, Amber Inver scale, Grayso		7: Ironbow, Blue- Red, High-Contrast, Amber, Hot Metal, Grayscale, Gray- scale Inverted	4: Ironbow, Blue-Red, Amber, Grayscale	Red, High Amber, H	ow, Blue- I-Contrast, Iot Metal, rscale	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 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					n (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			Ý	es					
Spot markers	User selectable hot spot and cold spot markers, 3 user defin- able spot markers on camera and in Smart- view* Software		ot markers on camera view∗Software	Hot and cold spot markers —		_			
Center box (MIN-MAX-AVG)		le-contractable measur vith MIN-MAX-AVG tem			ment b	e measure- ox with -AVG temp			
Safety standards	CSA (US and CAN): 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) droj	р				
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)	0.726 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, Spanish, Swedish, Traditional Chinese, and Turkish								



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

Included with product

Thermal imagers are shipped with ac power adapter, lithium ion smart battery (Ti125 includes 2 each other models 1 each), USB cable, SD memory card, hard carrying case (Ti125, Ti110, Ti105, Ti100 only), soft transport bag, adjustable hand strap (except Ti90), printed users manual in English, Spanish, French, German and Simplified Chinese, others on CD, SmartView- software and warranty registration card. Ti125 model also include a two-bay charging base and a multi-format USB memory card reader. Fluke Connect wireless SD card is included with purchase in certain countries, but shipped separately.

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.



Built with FLUKE CONNECTTM

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 Ti400 series with LaserSharp^{*} Auto Focus.

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