

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) 80x80 (6,400 pixels)

80x60 (4,800 pixels)

FIELD OF VIEW

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

Ti95 26 °H x 26 °V 19.5 °H x 26 °V

EXTENSIVE SD MEMORY SYSTEM

Removable 8Gb SD memory card

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

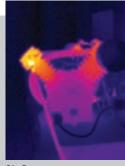
IR-Fusion® Technology with AutoBlend™ Mode



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



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

Detailed specifications



	Ti125	Til10	Ti105	Ti100	Ti95	Ti90		
Key features	I				I			
IFOV (spatial resolution)			mRad		5.6 r			
Resolution		160x120 (1	9,200 pixels)		80x80 (6,400 pixels)	80x60 (4,800 pixels)		
Field of view		22.5 °F	I x 31 °V		26 °H x 26 °V	19.5 °H x 26 °V		
Wireless connectivity			Y	es				
Fluke Connect™ App compatible		Yes	s, with included wireles	s SD card (where availa	ble)			
CNX™ Wireless System		Yes (where	e available)		_	-		
IR-Fusion* technology								
AutoBlend™ mode	Y	es	Yes (Mid IR Mode)		_			
Picture-In-Picture (PIP)	Y	es	PIP (1.2 m (4 ft) to 4.6 m (15 ft))	_	PIP (46 cm (18 in) and beyond)	_		
Focus system		focus system and beyond		focus n) and beyond	Fixed 46 cm (18 in)			
Ruggedized display			3.5 inch diagona	l (portrait format)				
Rugged, ergonomic design for one-handed use			Yı	es				
Thermal sensitivity (NETD)		≤ 0.10		≤ 0.15 °C at 30 °C target temp (150 mK)				
Enhanced Sensitivity w/TiR™ mode	≤ 0.08	°C at 30 °C target temp	(80mK)		_			
Temperature measurement range (not calibrated below -10 °C)	-20 °C to +350 °C (-4 °F to +662 °F)		-20 °C	to +250 °C (-4 °F to +4	182 °F)			
Level and span		Smooth auto and manual scaling						
Fast auto toggle between manual and auto modes			Yı	es				
Fast auto-rescale in manual mode			Y	es				
Minimum span (in manual mode)			2.5	5 °C				
Minimum span (in auto mode)			5	°C				
Built-in digital camera (visible light)	2 meg	gapixel industrial perfor	mance	None – IR Only	2 megapixel indus	trial performance		
Frame rate		9 Hz or 30 Hz versions			9 Hz only			
Laser Pointer		Y	es		_	-		
Torch		У	es		-	-		
Data storage and image capture								
Extensive SD memory system	Removable 8 (Gb SD memory card and	8 Gb wireless SD card	(where available); direc	ct download via USB-to-	PC connection		
Image capture, review, save mechanism		One	-handed image capture,	review, and save capa	bility			
File formats image	Non-rao	diometric (.bmp) or (.jpe		is2); No analysis softwa pg) files	are required for non-radi	ometric		
Memory review			Thumbnail view navigat	ion and review selection	n			
Software	Smar	tView» software, Fluke	Connect™, and SmartVie	ew® Mobile App—full an	alysis and reporting sof	ware		
Export file formats with SmartView* software		BN	IP, DIB, GIF, JPE, JFIF, JP	EG, JPG, PNG, TIF, and T	TIFF			
Voice annotation		60 seconds maximum recording time per image; reviewable playback on camera		-				
IR-PhotoNotes™		images)			- .			
Standard video recording	up to 5	Yes (AVI with MPEG encoding, up to 5 minutes)		- 				
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 pack with five-segment LED display to show charge level smart battery packs with five-segment LED display to show charge level							
Battery life	Fo	our+ hours continuous u	ise per battery pack (ass	rumes 50 % brightness	of LCD and average usag	e)		
Rattery charge time			2.5 hours to	full charge				



Detailed specifications



AC battery charging system	Two-bay ac battery charger (110 V AC to 220 V AC, 50/60 Hz) or optional 12 V automotive charging adapter. In-imager charging. AC mains adapters included in 9 Hz versions. Optional 12 V automotive charging adapter. In-imager charging. AC to 220 V AC, 50/60 Hz) or optional 12 V automotive charging adapter.								
AC operation	AC op	eration with included p	power supply (110 V AC	to 220 V AC, 50/60 Hz).	. AC mains adapters inc	luded.			
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 number and table)								
On-screen reflected background temperature compensation	Yes								
On-screen transmission correction	Yes —								
Color Palettes									
Standard Palettes	8: Ironbow, Blue-R Amber, Amber Invert scale, Grayso	ted, Hot Metal, Gray-	7: Ironbow, Blue– Red, High-Contrast, Amber, Hot Metal, Grayscale, Gray– scale Inverted	4: Ironbow, Blue-Red, Amber, Grayscale	6: Ironbow, Blue- Red, High-Contrast, Amber, Hot Metal, 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 µ	ım (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 markers	User selectable hot spot and cold spot markers, 3 user defin- able spot markers on camera and in Smart- view Software		t markers on camera iew*Software Hot and cold spot markers —			_			
Center box (MIN-MAX-AVG)		le-contractable measur vith MIN-MAX-AVG tem			Fixed-size measure- ment box with MIN-MAX-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 withstand 2 meter (6.5 feet) drop								
Size (H x W x L)		28	3.4 cm x 8.6 cm x 13.5 cm		in)				
Weight (battery included)		DE4 (g (1.6 lb)		-1			
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 Supported Languages	Two-years (assumes normal operation and normal aging) Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese,								





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, lithium ion smart battery (Ti125 includes 2 eachother models 1 each), USB cable, SD memory card, hard carrying case (Til25, Til10, Til05, Til00 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

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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Fluke Corporation

PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.

PO Box 1186, 5602 BD Eindhoven, The Netherlands

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For more information call:

In the U.S.A. (800) 443-5853 or Fax (425) 446-5116 In Europe/M-East/Africa +31 (0)40 267 5100 or Fax +31 (0)40 267 5222 In Canada (800)-36-FLUKE or Fax (905) 890-6866 From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116 Web access: http://www.fluke.com

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