

## 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)

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 Gh wireless SD Card (where a

### **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<sup>®</sup> technology with AutoBlend<sup>™</sup> 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

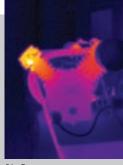
## IR-Fusion<sup>®</sup> Technology with AutoBlend<sup>™</sup> Mode



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	Ti110	Ti105	Ti100	Ti95	Ti90		
Key features								
IFOV (spatial resolution)		3.39	mRad		5.6 r	nRad		
Resolution		160x120 (19	9,200 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			Ye	es				
Fluke Connect™ App compatible		Yes	s, with included wireless	SD card (where availa	able)			
CNX™ Wireless System		Yes (where	e available)		_	=		
IR-Fusion <sup>*</sup> technology								
$AutoBlend^{\tt TM}\ mode$	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				Fixed 46 cm (18 in)				
Ruggedized display			3.5 inch diagona	l (portrait format)	•			
Rugged, ergonomic design for one-handed use			Ye	es				
Thermal sensitivity (NETD)	≤ 0.10 °C at 30 °C target temp (100 mK)					≤ 0.15 °C at 30 °C target tem (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)							
Level and span	Smooth auto and manual scaling							
Fast auto toggle between manual and auto modes	Yes							
Fast auto-rescale in manual mode			Ye	es				
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 perform							
Frame rate	9 Hz or 30 Hz versions				9 Hz only			
Laser Pointer	Yes -							
Torch	Yes -							
Data storage and image capture								
Extensive SD memory system	Removable 8 (	Sb SD memory card and	8 Gb wireless SD card	(where available): dire	ct download via USB-to-	PC connection		
Image capture, review, save mechanism	Removable 8 Gb SD memory card and 8 Gb wireless SD card (where available); direct download via USB-to-PC connection  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	(.bmp, .jpg) nies  Thumbnail view navigation and review selection							
Software	SmartView <sup>®</sup> software, Fluke Connect™, and SmartView <sup>®</sup> Mobile App—full analysis and reporting software							
Export file formats with SmartView* software	Smartview* software, Fluke Connect.", and Smartview* mobile App—run analysis and reporting 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)			<del>-</del>				
Standard video recording	Yes (AVI with MPEG encoding, up to 5 minutes)		<del>-</del>					
Radiometric video recording	Yes			_				
Streaming video	Streaming via USB to PC			-				
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 pa	ack with five-segment l	LED display to show cha	rge level		
Battery life	Fo	ur+ hours continuous u	se per battery pack (ass	umes 50 % brightness	of LCD and average usag	re)		
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 μ	m (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 Hot and cold spot markers riew*Software –			_			
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	ENG1326-1; 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<sup>\*</sup> 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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