

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)



Now compatible with Fluke Connect™ Mobile App¹

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[™] ShareLive[™] video call lets you collaborate
 with others, so they see what you see. Get approvals without leaving
 the field¹
- Precisely blended visual and infrared images with crucial details to assist in identifying potential problems – IR-Fusion[®] technology with AutoBlend[™] mode²
- 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™ Focus System and as close as 15 cm (6 in) in manual mode²
- 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

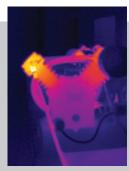
IR-Fusion® Technology with AutoBlend™ Mode



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

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

Detailed specifications



	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			Ye	es					
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 diagonal (portrait format)								
Rugged, ergonomic design for one-handed use			Ye	es					
Thermal sensitivity (NETD)	Standard models: ≤ 0.10 °C at 30°C target temp (100 mK) TiR models: ≤ 0.08 °C at 30 °C target temp (80 mK)			≤ 0.10 °C at 30 °C target temp (100 mK) ≤ 0.10 °C at 30 °C target temp (150 mK)					
Temperature measurement range (not calibrated below -10 °C)	Ti125:-20 °C to +350 °C (-4 °F to +662 °F) TiR125: -20 °C to +150 °C (-4 °F to +302 °F) Till0 and TiR105: -20 °C to +250 °C (-4 °F to +482 °F) TiR110 and TiR105: -20 °C to +150 °C (-4 °F to +302 °F)			-20 °C to +250 °C (-4 °F to +482 °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	apixel industrial perfor	mance	None - IR Only	2 megapixel indu	strial performance			
Frame rate	30 Hz or 9 Hz versions (TiR models: 9 Hz only)				9 Hz only				
Laser pointer	Yes			-					
LED light (torch)			-						
Data storage and image capture									
Extensive SD memory system	Removab	ole SD memory card and	wireless SD card (wher	e available); direct dow	rnload via USB-to-PC co	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	Fo	ur+ hours continuous u	se per battery pack (ass	umes 50% brightness	of LCD and average usa	ge)			

Detailed specifications



	Ti125/TiR125	Ti110/TiR110	Ti105/TiR105	Ti100	Ti95	Ti90				
Battery										
Battery charge time	2.5 hours to full charge									
Battery charging system	Two-bay battery charger or in- imager charging. Optional 12 V automotive charging adapter	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 °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	Ye	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			Ye	es						
Spot temperature	Hot and cold spot markers				Hot and cold spot markers	_				
User-definable spot markers	3 user definabl	e spot markers	– T	Т						
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									
			25G, IEC	68-2-29						
Shock	Engineered to withstand 2 meter (6.5 feet) drop									
Shock Drop		28.4 cm x 8.6 cm x 13.5 cm (11.2 in x 3.4 in x 5.3 in)								
		28	3.4 cm x 8.6 cm x 13.5 ci	m (11.2 ln x 3.4 ln x 5.3	in)					
Drop		28	0.73 kg		111)					
Drop Size (H x W x L)	I		0.73 kg	(1.6 lb)	spray from all directions	3)				
Drop Size (H x W x L) Weight (battery included)	I	P54 (protected against	0.73 kg	(1.6 lb) otection against water	spray from all directions	s)				
Drop Size (H x W x L) Weight (battery included) Enclosure rating	I	P54 (protected against	0.73 kg dust, limited ingress; pr	(1.6 lb) otection against water ded warranties are ava	spray from all directions	5)				

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-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 FLK-TiR125 9HZ Building Diagnostics Thermal Imager FLK-TiR110 9HZ Building Diagnostics Thermal Imager FLK-TiR105 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™ 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 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-T195 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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