

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

Technical Data



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)

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

19.5 °H x 26 °V

EXTENSIVE SD MEMORY SYSTEM Removable 4Gb SD memory card

Fluke Infrared Cameras Experience. Performance. Confidence.

The Fluke Til25, Til10, Til05, Til00, Ti95 and Ti90 Infrared Cameras can save you time and money by finding potential problems before they become costly failures.

- . 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

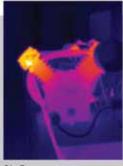
IR-Fusion Technology with AutoBlend™ Mode



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 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		2,2.5 °H	26 °H x 26 °V	19.5 °H x 26 °V					
IR-Fusion: technology						•			
AutoBlend™ mode	Ye	98	Yes (Mid IR Mode)		-				
Picture-In-Picture (PIP)	Yes		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)	focus system and beyond		d focus Fixed focus in and beyond 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 °		≤ 0.15 °C at 30 °C target temp (150 mK)					
Enhanced Sensitivity w/TiR ^{rs} 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 +482 °F) (-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 ℃								
Minimum span (in auto mode)	5°C								
Built-in digital camera (visible light)	2 meg	2 megapixel indu	2 megapixel industrial performance						
Frame rate		9 Hz or 30 Hz versions	9 Hz only						
Laser Pointer		Y	-						
Torch	Yes -								
Data storage and image capture									
Extensive SD memory system	Removable 4Gb SD memory card								
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 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		(PEG encoding, minutes)	-						
Radiometric video recording	Yes	res –		-					
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 pack with five-segment LED display to show charge level 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)								
-	2.5 hours to full charge								

Detailed specifications



	Ti125	Ti110	Ti105	Ti100	Ti95	Ti90			
Battery									
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 adapter. (110 V AC to 220 V AC, 50/60 Hz) or optional 12 V automotive charging adapter.								
AC operation	AC op	eration with included	power supply (110 V AC	to 220 V AC, 50/60 Hz).	AC mains adapters incl	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 num	ber and table)					
On-screen reflected background tem- perature compensation	Yes								
On-screen transmission correction	Yes -								
Color Palettes									
Standard Palettes	8: Ironbow, Blue-R Amber, Amber Inver- scale, Grayso		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	3: Ironbow, Blue-Red, Grayscale			
Ultra Contrast™ Palettes	8: Ironbow Uitra, Blue-Red Ultra, High-Contrast Uitra, Amber Ultra, Amber Inverted Uitra, 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 markers	User selectable hot spot and cold spot markers, 3 user defin- able spot markers on camera and in Smart- view-Software		et markers on camera view=Software	_	Hot and cold spot markers	_			
Center box (MIN-MAX-AVG)	Expandable-contractable measurement box with MIN-MAX-AVG temp Expandable-contractable measurement box 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 PCC	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)	28.4 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)								
Supported Languages	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-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-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.

Optional

PLK-TI-VISOR2 Sun Visor
PLK-TI-TRIPOD2 Tripod Mounting Accessory
BOOK-ITP Introduction to Thermography Principles Book
PLK-TI-SBP3 Additional Smart Battery
FLK-TI-SBC3 Additional Smart Battery Charger
TI-CAR CHARGER Car Charger

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.

Fluke. Keeping your world up and running.»

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