

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

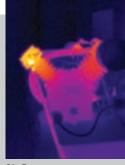
IR-Fusion[®] Technology with AutoBlend[™] Mode



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



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 mRad				5.6 mRad				
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	Yes								
Fluke Connect™ App compatible	Yes, with included wireless SD card (where available)								
CNX™ Wireless System	Yes (where 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		ptiFlex™ focus system Fixed focus cm (6 in) and beyond 122 cm (48 in) 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 °		≤ 0.15 °C at 30 °C target temp (150 mK)					
Enhanced Sensitivity w/TiR™ mode	≤ 0.08	°C at 30 °C target temp	rget 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 °C								
Minimum span (in auto mode)	5 ℃								
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	Yes -								
Torch	Yes -								
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 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 [™] , 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			_					
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 smart battery packs 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)								
Battery charge time			2.5 hours to	full charge					

Detailed specifications



	Ti125	Ti110	Ti105	Ti100	Ti95	Ti90			
Battery	11120	11110	11100	11100	1100	1100			
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	(110 V AC (110 V AC to 220 V AC, 50/60 Hz) or optional 12 V automotive charging adapter. (110 V AC to 220 V AC, 50/60 Hz) or optional 12 V automotive charging adapter. (110 V AC to 220 V AC, 50/60 Hz) or optional 12 V automotive charging adapter. (110 V AC to 220 V AC, 50/60 Hz) or optional 12 V automotive charging adapter.							
AC operation	AC o	peration with included	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	Y	es	-						
Color Palettes									
Standard Palettes	Amber, Amber Inver	Red, High-Contrast, ted, Hot Metal, Gray- cale Inverted	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 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	Yes								
Spot markers	User selectable hot spot and cold spot markers, 3 user defin- able spot markers on camera and in Smart- view-Software	3 user definable spot markers on camera and in Smartview-Software Hot and cold spot m		markers	-				
Center box (MIN-MAX-AVG)		ole-contractable measur with 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)	28.4 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

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 CONNECT

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. Keeping your world up and running.®

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