

Ti400, Ti300 and Ti200 **Advanced Performance Infrared Cameras**

Technical Data

A new generation of tools with next generation performance.

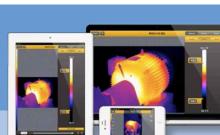
This trio of new Fluke infrared cameras is equipped with LaserSharp[™] Auto Focus. Yes, there are other auto focus systems on the market but Fluke took it one step further so you get in-focused images, Every. Single. Time. Every infrared camera user knows that focus is the single most important thing to ensure when conducting an infrared inspection. Without an in-focus image temperature measurements may not be accurate and it's much easier to miss a problem. LaserSharp auto focus tells you exactly where you are focusing. It uses a laser to calculate the distance to your target before it focuses. Place the red laser dot on the object you are inspecting, then pull and release the trigger for a perfect in-focus image.

- Capture up to five additional measurements with CNX[™] Wireless System for more complete analysis and reporting*
- Detect and communicate issues faster with patented Fluke IR-Fusion[®] technology with AutoBlend[™] mode
- · Faster communication with wireless image transfer directly to your PC, Apple® iPhone® or iPad®
- · One-handed, easy-to-use user interface
- Ruggedized high resolution 640x480 capacitive touch screen for quick menu navigation
- Capture additional digital images to show location or additional site details with IR-PhotoNotes™ Annotation System
- · Standard and radiometric video recording*
- Streaming video (USB and HDMI)
- Text* and voice recording and annotation gets additional details saved with the image file
- Optional interchangeable lenses for greater flexibility in additional applications
- High-temperature measurement (up to 1200 °C on the Ti400)
- Included SmartView[®] and SmartView Mobile App Analysis and Reporting Software

* Coming soon via firmware update. Users notified via SmartView software when available.



IDMI



Announcing the new **SmartView**[®] Mobile App

Bring your office to your inspection site with the SmartView Mobile App. Create an inspection report on site and communicate directly to your client or manager via your Apple® iPhone® or iPad®.

Optimize: Adjust the image to present problems in the most effective way.

Analyze: Use markers and other tools to quantify the severity of problems.

Communicate: Share inspection results by emailing images or reports to:

- Plan next steps or gain approval for work done before you even leave the job site
- · If needed, get assistance analyzing the problem

Fluke SmartView Mobile will increase the return on your infrared camera investment.

Ti300

Ti400

Detailed specifications

		11300	
Temperature			
Temperature measurement range	-20 °C to +1200 °C		0 +650 ℃
(not calibrated below -10 °C)	(-4 °F to +2192 °F) (-4 °F to +1202 °F)		
Temperature measurement	± 2 °C or 2 % (at 25 °C nominal, whichever is greater)		
accuracy			
On-screen emissivity correction On-screen reflected background	Yes (by number and table)		
temperature compensation	Yes		
On-screen transmission correction		Yes	
Imaging performance		105	-
Imaging performance	Q Hz rofrosh	rate or 60 Hz refresh rate depending upon m	odel variation
Detector type	Focal Plane Array, uncooled Focal Plane Array, uncooled Focal Plane Array, uncooled		
Detector type	microbolometer, 320 x 240 pixels	microbolometer, 240 X 180 pixels	microbolometer, 200 X 150 pixels
Thermal sensitivity (NETD)		target temp (50 mK)	≤ 0.075 °C at 30 °C target temp (75 mK
Total pixels	76,800	43,200	30.000
Infrared spectral band	7.5 um to 14 µm (long wave)		
Visual (visible light) camera	Industrial performance 5.0 megapixel		
Standard infrared lens type			
Field of view		24 ° x 17 °	
Spatial resolution (IFOV)	1.31 mRad	1.75 mRad	2.09 mRad
Minimum focus distance	1.51 IIItuu	15 cm (approx. 6 in)	2.00 initia
Optional telephoto infrared lens type	available soon		
Field of view	-,	12°x9°	
Spatial resolution (IFOV)	0.65 mRad	0.87 mRad	1.05 mRad
Minimum focus distance	0.00 imidu	45 cm (approx. 18 in)	1.00 imidu
Optional wide-angle infrared lens ty	me available soon	40 cm (approx. 10 m)	
Field of view	po, available soon	46 ° x 34 °	
Spatial resolution (IFOV)	2.62 mRad	3.49 mRad	4.19 mRad
Minimum focus distance	2.02 Intua	15 cm (approx. 6 in)	4.10 Initia
Focus mechanism			
LaserSharp™ Auto Focus System		Yes	
Advanced Manual Focus		Yes	
Image presentation			
Palettes			
Standard	Ironbow, Blue-Red, High C	ontrast, Amber, Amber Inverted, Hot Metal, G	rayscale, Grayscale Inverted
Ultra Contrast™ Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber Inverted Ultra,			
Ultra Contrast ^{im}	Ironbow Ultra, Blue-	Red Ultra, High Contrast Ultra, Amber Ultra, A	Amber Inverted Ultra,
Ultra Contrast ^{1m}		Red Ultra, High Contrast Ultra, Amber Ultra, A etal Ultra, Grayscale Ultra, Grayscale Inverte	
Level and span	Hot M		d Ultra
Level and span Fast auto toggle between manual	Hot M	etal Ultra, Grayscale Ultra, Grayscale Inverte a auto-scaling and manual scaling of level an	d Ultra
Level and span Fast auto toggle between manual and auto modes	Hot M	etal Ultra, Grayscale Ultra, Grayscale Inverte a auto-scaling and manual scaling of level a Yes	d Ultra
Level and span Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode	Hot M	etal Ultra, Grayscale Ultra, Grayscale Inverte a auto-scaling and manual scaling of level au Yes Yes	d Ultra
Level and span Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode Minimum span (in manual mode)	Hot M	etal Ultra, Grayscale Ultra, Grayscale Inverter a auto-scaling and manual scaling of level au Yes Yes 2.0 °C (3.6 °F)	d Ultra
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Level and span Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode Minimum span (in manual mode) Minimum span (in auto mode) IR-Fusion ∗ information Picture-In-Picture (PIP) Full screen infrared AutoBlend™ mode	Hot M Smoot	etal Ultra, Grayscale Ultra, Grayscale Inverte a auto-scaling and manual scaling of level an Yes 2.0 °C (3.6 °F) 3.0 °C (5.4 °F) Yes Yes Yes Yes	d Ultra nd span
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Level and span Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode) Minimum span (in auto mode) IR-Fusion * information Picture-In-Picture (PIP) Full screen infrared AutoBlend [™] mode Color alarms (temperature alarms) Image capture and data storage Image capture, review, save mechanism Storage medium File formats Export file formats w/SmartView* software Memory review Other time-saving and productivit Voice annotation IR-PhotoNotes™ Wi-Fi connectivity Text annotation* Video recording* Streaming Video CNX™ Wireless System* Cardinal Compass*	Hot M Smootl Smootl High-tempe One-i Micro SD Memory Card, on-board f Non-radiometric (.bmp) or (.jpeg) or fully-ra No analysis soft BM Ti y features 60 seconds maxin	etal Ultra, Grayscale Ultra, Grayscale Inverted a auto-scaling and manual scaling of level an Yes 2.0 °C (3.6 °F) 3.0 °C (5.4 °F) Yes Yes Yes rature , low-temperature, and isotherm (use anded image capture, review, and save cap ash memory, save-to-USB capability, direct of diometric (is2) Video*: non-radiometric (MPEC ware required for non-radiometric (Imp. jp P, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF, and numbnail view navigation and review selecti num recording time per image; reviewable p Yes Yes, to PC, iPhone*, iPad* and WiFi to LAN* Yes Standard and Radiometric USB to PC and HDMI to HDMI compatible scr Yes* Yes*	d Ultra nd span r-selectable) ability lownload via USB-to-PC connection G - encoded .AVI] and fully-radiometric (.IS3 g and .avi*) files TIFF on layback on imager



Ti200

General specifications

Operating temperature	-10 °C to +50 °C (14 °F to 122 °F)		
Storage temperature	-20 °C to +50 °C (-4 °F to 122 °F) without batteries		
Relative humidity	10 % to 95 % non-condensing		
Ruggedized Touchscreen	8.9 cm (3.5 in) diagonal landscape color VGA (640 x 480) LCD with backlight		
Display (Capacitive)			
Controls and adjustments	User selectable temperature scale (°C/°F)		
	Language selection Time/Date set		
	Emissivity selection		
	Reflected background temperature compensation		
	Transmission correction		
	User selectable hot spot and cold spot, and center point on the image		
	Expandable-contractable Measurement Box with MIN-AVG-MAX temp		
	Color alarms		
	User selectable backlight setting Graphical information display preference		
Software	SmartView* and SmartView Mobile App – full analysis and reporting software included		
Batteries	Two lithium ion rechargeable smart battery packs with five-segment LED display to show charge level, all models		
Battery life	Four+ hours continuous use per battery packs with investigation and display to show charge level, an inducts		
Battery charge time	2.5 hours to full charge		
AC battery charging	Two-bay ac battery charger (110 V ac to 220 V ac, 50/60 Hz) (included), or in-imager charging. AC mains adapters included. Optional		
The Buttery onarging	12 V automotive charging adapter. All models		
AC operation	AC operation with included power supply (110 V ac to 220 V ac, 50/60 Hz). AC mains adapters included.		
Power saving	User selectable sleep and power off modes		
Safety standards	UL 61010-1:2012 CAN/CSA-C22.2 No.61010-1-12 IEC 61010-1 3rd Edition (2010)		
Electromagnetic compatibility	EN 61326-1:2006 IEC 61326-1:2005		
C Tick	IEC/EN 61326-1		
US FCC	CFR 47, Part 15 Subpart B Class B		
Vibration	0.03 g2/Hz (3.8 grms), 2.5g IEC 68-2-6		
Shock	25 g, EC 68-2-29		
Drop	Engineered to withstand 2 meter (6.5 feet) with standard lens		
Size (H x W x L)	27.7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in)		
Weight (battery included)	1.04 Kg (2.3 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 Chi- nese, Spanish, Swedish, Traditional Chinese, and Turkish		
	ווכזב, טאמווזאו, אשכענאו, דומעונטוומו טוווובצל, מונע דעווגאו		

Ordering information

FLK-Ti400 9 HzThermal Imager, 9 HzFLK-Ti400 60 HzThermal Imager, 60 Hz, upon requestFLK-Ti300 9 HzThermal Imager, 9 HzFLK-Ti300 60 HzThermal Imager, 60 Hz, upon requestFLK-Ti200 9 HzThermal Imager, 9 HzFLK-Ti200 60 HzThermal Imager, 60 Hz, upon request

Included

Thermal imager with standard infrared lens; ac power supply and battery pack charger (including mains adapters); two, rugged lithium ion smart battery packs; Micro SD memory card with SD adapter; 3m USB cable; 3m HDMI video cable; SmartView^{*} software with free software upgrades for life; rugged, hard carrying case; soft transport bag; adjustable hand strap; printed users manual (five languages); CD user manual; warranty registration card.

Optional accessories

FLK-LENS/TELE2 Telephoto infrared lens (2X magnification) FLK-LENS/WIDE2 Wide-angle infrared lens TI-CAR-CHARGER Thermal imager vehicle charger FLK-TI-VISOR3 Thermal imager visor BOOK-ITP Introduction to Thermography Principles book TI-TRIPOD3 Tripod mounting base accessory

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FLUKE .

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