

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





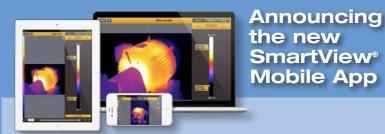


HDMI









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<sup>®</sup> iPhone<sup>®</sup> or iPad<sup>®</sup>.

 $\mbox{\sc Optimize:}$  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.



# **Detailed specifications**

	Ti400	Ti300	Ti200		
Temperature					
Temperature measurement range	-20 °C to +1200 °C				
(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	Yes (by number and table)				
On-screen reflected background	Yes				
temperature compensation					
On-screen transmission correction		Yes			
Imaging performance					
Image capture frequency		rate or 60 Hz refresh rate depending upon m			
Detector type	Focal Plane Array, uncooled	Focal Plane Array, uncooled	Focal Plane Array, uncooled		
m ATDMD	microbolometer, 320 x 240 pixels	microbolometer, 240 X 180 pixels	microbolometer, 200 X 150 pixels ≤ 0.075 °C at 30 °C target temp (75 mK)		
Thermal sensitivity (NETD)	≤ 0.05 °C at 30 °C t	• • • •	0 1 1		
Total pixels	76,800 43,200 30,000				
Infrared spectral band	7.5 μm 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		15 cm (approx. 6 in)			
Optional telephoto infrared lens typ	e, available soon				
Field of view		12 ° x 9 °			
Spatial resolution (IFOV)	0.65 mRad	0.87 mRad	1.05 mRad		
Minimum focus distance	45 cm (approx. 18 in)				
Optional wide-angle infrared lens t	ype, available soon				
Field of view		46 ° x 34 °			
Spatial resolution (IFOV)	2.62 mRad	3.49 mRad	4.19 mRad		
Minimum focus distance		15 cm (approx. 6 in)			
Focus mechanism					
LaserSharp™ Auto Focus System		Yes			
Advanced Manual Focus		Yes			
Image presentation					
Palettes					
Standard	Ironbow, Blue-Red, High Co	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,		
	Hot M	etal Ultra, Grayscale Ultra, Grayscale Inverte	d Ultra		
Level and span	Smooth auto-scaling and manual scaling of level and span				
Fast auto toggle between manual	Yes				
and auto modes		165			
Fast auto-rescale in manual mode	Yes				
Minimum span (in manual mode)		2.0 °C (3.6 °F)			
Minimum span (in auto mode)		3.0 °C (5.4 °F)	· · ·		
IR-Fusion® information					
Picture-In-Picture (PIP)					
Full screen infrared	Yes				
		Yes Yes			
AutoBlend™ mode					
AutoBlend™ mode Color alarms (temperature alarms)	High-tempe	Yes	r-selectable)		
Color alarms (temperature alarms)	High-tempe	Yes Yes	r-selectable)		
Color alarms (temperature alarms)  Image capture and data storage		Yes Yes rature , low-temperature, and isotherm (use			
Color alarms (temperature alarms)  Image capture and data storage  Image capture, review,		Yes Yes			
Color alarms (temperature alarms)  Image capture and data storage	One-h	Yes Yes rature , low-temperature, and isotherm (use	ability		
Color alarms (temperature alarms)  Image capture and data storage  Image capture, review, save mechanism  Storage medium	One-h Micro SD Memory Card, on-board fl	Yes Yes rature , low-temperature, and isotherm (use nanded image capture, review, and save cap ash memory, save-to-USB capability, direct	ability download via USB-to-PC connection		
Color alarms (temperature alarms)  Image capture and data storage  Image capture, review, save mechanism	One-h  Micro SD Memory Card, on-board fl  Non-radiometric (.bmp) or (.jpeg) or fully-radi	Yes Yes Yes rature , low-temperature, and isotherm (use nanded image capture, review, and save cap ash memory, save-to-USB capability, direct of diometric (.is2) Video*: non-radiometric (MPE	ability download via USB-to-PC connection G - encoded .AVI) and fully-radiometric (.IS3)		
Color alarms (temperature alarms)  Image capture and data storage  Image capture, review, save mechanism  Storage medium  File formats	One-F Micro SD Memory Card, on-board fl Non-radiometric (.bmp) or (.jpeg) or fully-rad No analysis soft	Yes Yes Yes rature , low-temperature, and isotherm (use nanded image capture, review, and save cap ash memory, save-to-USB capability, direct t itiometric (.is2) Video*: non-radiometric (.bmp, .jp	ability download via USB-to-PC connection G - encoded .AVI) and fully-radiometric (.IS3) g and .avi*) files		
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Color alarms (temperature alarms)  Image capture and data storage  Image capture, review, save mechanism  Storage medium  File formats  Export file formats w/SmartView*	One-h  Micro SD Memory Card, on-board fl.  Non-radiometric (.bmp) or (.jpeg) or fully-rad  No analysis soft  BMI	Yes Yes Yes rature , low-temperature, and isotherm (use nanded image capture, review, and save cap ash memory, save-to-USB capability, direct t itiometric (.is2) Video*: non-radiometric (.bmp, .jp	ability download via USB-to-PC connection G - encoded .AVI) and fully-radiometric (.IS3) g and .avi*) files		
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 $<sup>*\ \</sup>textit{Coming soon via firmware update. Users notified via SmartView software when available.}$ 



# **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)	The state of the s
Controls and adjustments	User selectable temperature scale (°C/°F) Language selection
	Time/Date set
	Imisorbite 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 pack (assumes 50 % brightness of LCD and average usage)
Battery charge time	2.5 hours to full charge
	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
AC battery charging	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, IEC 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 Chinese, Spanish, Swedish, Traditional Chinese, and Turkish

## Ordering information

FLK-Ti400 9 Hz Thermal Imager, 9 Hz

FLK-Ti400 60 Hz Thermal Imager, 60 Hz, upon request

FLK-Ti300 9 Hz Thermal Imager, 9 Hz

FLK-Ti300 60 Hz Thermal Imager, 60 Hz, upon request

FLK-Ti200 9 Hz Thermal Imager, 9 Hz

FLK-Ti200 60 Hz Thermal Imager, 60 Hz, upon request

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

### Fluke Europe B.V.

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