

TECHNICAL DATA

Ti400, Ti300 and Ti200 Thermal Imagers with LaserSharp® Auto Focus

The Fluke Professional Series



SUPERIOR IMAGE QUALITY

SPATIAL RESOLUTION

Ti400 1.31 mRad

Ti300 1.75 mRad

Ti200 2.09 mRad

RESOLUTION

Ti400

320 x 240 (76,800 pixels)

Ti300

240 x 180 (43,200 pixels)

Ti20

200 x 150 (30,000 pixels)

FIELD OF VIEW Ti400, Ti300, Ti200 24 °H x 17 °V

Fluke Thermal Imagers Experience. Performance. Confidence.

- Get an in-focus image like never before with a touch of a button.
 LaserSharp* Auto Focus, exclusive to Fluke, uses a built-in laser distance meter that calculates and displays the distance from your designated target with pinpoint accuracy
- Brilliantly detailed quality images. Pixel for pixel the best spatial resolution available¹
- Precisely blended visual and infrared images with crucial details to assist in identifying potential problems—IR-Fusion* technology with AutoBlend™ mode
- Standard and radiometric video recording and video streaming
- Text and voice recording/annotation allows you to save additional details to image files
- See the details you need with interchangeable smart lenses—2x and 4x telephoto and wide angle—no calibration required, interchangeable between compatible thermal imagers

AutoFocus Redesigned

LaserSharp® Auto Focus, uses a built-in laser distance meter that calculates the distance to your designated target with pinpoint accuracy.

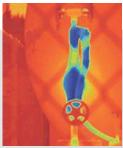


Many inspection sites are challenging for certain autofocus systems.



Passive autofocus systems may only capture the near-field subject (chain link fence).





LaserSharp® Auto Focus with a built-in laser distance meter clearly captures your designated target.

¹ Comparison is based on competitive models with the same detector resolution.



Detailed specifications

1.31 mRad, D:S 764:1	Ti300 1.75 mRad, D:S 573:1	Ti200 2.09 mRad, D:S 477:1
	1.75 mRad, D:S 573:1	2.09 mRad. D:S 477:1
	1.10 mitaa, D.5 010.1	
320 x 240 (76,800 pixels)	240 x 180 (43,200 pixels)	200 x 150 (30,000 pixels)
020 x 210 (10,000 pixols)	24 °H x 17 °V	200 k 100 (00,000 pikola)
	15 cm (approx. 6 in)	
0.65 mRad DrS 1528-1		1.05 mRad, D:S 955:1
0.00 iiitaa, b.b 1020.1		1.00 mitaa, b.b 000.1
0.33 mRad DrS 3056-1		0.53 mRad, D:S 1910:1
0.00 mitau, 5.5 0000.1		0.00 mitaa, 5.5 1010.1
2 62 mRad DrS 300·1		4.19 mRad, D:S 249:1
2.02 lilitau, D.3 399.1		4.19 lilitau, D.S 249.1
Yes, calculates distance to the target for precisely focused images and displays distance on screen		
	Yes	
	* () " " "))	
Yes		
Yes		
8.9 cm (3.5 in) diagonal landscape color VGA (640 x 480) LCD with backlight		
Yes		
≤ 0.05 °C at 30 °C to	arget temp (50 mK)	≤ 0.075 °C at 30 °C target ten (75 mK)
Smooth auto and manual scaling		
Yes		
Yes		
2.0 °C (3.6 °F)		
3.0 °C (5.4 °F)		
5 megapixel industrial performance		
60 Hz or 9 Hz versions		
Yes		
Yes		
Removable micro SD memory card, on-board flash memory, save-to-USB flash drive capability, direct download via USB-to-PC connection		
One-handed image capture, review, and save capability		
Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files		
Thumbnail view navigation and review selection		
SmartView* software and SmartView* Mobile App—full analysis and reporting software		
BMP, DI	IB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF, at	nd TIFF
60 seconds maximum	n recording time per image; reviewable	playback on camera
	Yes	
Yes	-	-
	Standard and radiometric	
Non-radiometr	ric (MPEG - encoded .AVI) and fully-rad	iometric (.IS3)
Via HDMI or WiFi hot spot in remote control mode	Via I	HDMI
Yes	-	_
	Removable micro SD memori di Solution	0.65 mRad, D:S 1528:1 12 °H x 9 °V 45 cm (approx. 18 in) 0.33 mRad, D:S 3056:1 0.44 mRad, D:S 2292:1 6.0 °H x 4.5 °V 1.5 m (approx. 5 ft) 2.62 mRad, D:S 399:1 3.49 mRad, D:S 299:1 46 °H x 34 °V 15 cm (approx. 6 in) Yes, for consistently in-focus images. Every. Sing Yes, calculates distance to the target for precisely focused images an Yes Yes Yes Yes 4.9 cm (3.5 in) diagonal landscape color VGA (640 x 480) in Yes Smooth auto and manual scaling Yes Yes 2.0 °C (3.6 °F) 3.0 °C (5.4 °F) 5 megapixel industrial performance 60 Hz or 9 Hz versions Yes Removable micro SD memory card, on-board flash memory, save-toe direct download via USB-to-PC connection Cone-handed image capture, review, and save can non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no ana non-radiometric (.bmp), jpg and .avi) file Thumbnail view navigation and review sele SmartView- software and SmartView- Mobile App—full analysis BMP, DIB, GIF, JPE, JPEF, JPEG, JPG, PNG, TIF, and 60 seconds maximum recording time per image; reviewable Yes Yes Yes Standard and radiometric Non-radiometric (.MPEG - encoded .AVI) and fully-radiometric (.MPGG - encoded .AVI) and fully-radiome



Detailed specifications

	Ti400	Ti300	Ti200	
Battery				
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five-segment LED display to show charge level			
Battery life	Four+ hours continuous use per battery pack			
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			
AC operation	AC operation with included power supply (100 V AC to 240 V AC, 50/60 Hz)			
Power saving	User selectable sleep and power off modes			
Temperature measurement				
Temperature measurement range (not calibrated below –10 °C)	-20 °C to +1200 °C (-4 °F to +2192 °F)		+650 °C +1202 °F)	
Accuracy	± 2 °C or 2% (at 25 °C nominal, whichever is greater)		greater)	
On-screen emissivity correction	Yes (both value and table)			
On-screen reflected background temperature compensation	Yes			
On-screen transmission correction	Yes			
Color palettes				
Standard palettes	8: Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted			
Ultra Contrast ^{ns} palettes	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra			
General specifications				
Color alarms (temperature alarms)	High-temperature and low-temperature			
Infrared spectral band	7.5 μm to 14 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) without batteries			
Relative humidity	10% to 95% non-condensing			
Center-point temperature measurement	Yes			
Spot temperature	Hot and cold spot markers			
User-definable spot markers	3 user-definable spot markers			
Center box	Expandable-contractible measurement box with MIN-MAX-AVG temp			
Safety	IEC 61010-1: Overvoltage category II, Pollution Degree 2		Degree 2	
Electromagnetic compatibility	IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A			
Australian RCM	IEC 61326-1			
US FCC	CFR 47, Part 15 Subpart B			
Vibration	0.03 g2/Hz (3.8 g), 2.5 g IEC 68-2-6			
Shock	25 g, IEC 68-2-29			
Drop	Engineered to withstand 2 meter (6.5 feet) drop 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	IEC 60529: 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 9Hz Thermal Imager, 9 Hz FLK-Ti400 60Hz Thermal Imager, 60 Hz FLK-Ti300 9Hz Thermal Imager, 9 Hz FLK-Ti300 60Hz Thermal Imager, 60 Hz FLK-Ti200 9Hz Thermal Imager, 9 Hz FLK-Ti200 60Hz Thermal Imager, 60 Hz

Included

Thermal imager with standard infrared lens; ac power supply and battery pack charger (including universal ac adapters); two, rugged lithium ion smart battery packs; USB cable; HDMI video cable; SmartView* software available via free download; rugged, hard carrying case; soft transport bag; adjustable hand strap; warranty registration card.

Optional accessories

FLK-LENS/TELE2 Infrared Telephoto Lens
(2X magnification)
FLK-LENS/4XTELE2 Infrared Telephoto Lens
(4X magnification)
FLK-LENS/WIDE2 Infrared Wide Angle Lens
TI-CAR-CHARGER Car Charger
FLK-TI-VISOR3 Sun Visor
BOOK-ITP Introduction to Thermography Principles Book
TI-TRIPOD3 Tripod Mounting Accessory
FLK-TI-SBP3 Additional Smart Battery
FLK-TI-SBC3 Additional Smart Battery Charger

Visit the Fluke website to get complete details on these products or ask your local Fluke sales representative.

RF connection time (binding time) may take up to 1 minute



The Expert Series

Go expert with the Fluke TiX520 or TiX560, and get maximum flexibility with an articulating lens that rotates a full 180 degrees and a 5.7 inch touchscreen LCD. Includes in-field analysis and post-capture image processing on camera, along with other expert-level features and more lens options.



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