

Tekniset tiedot

# Fluke Ti32 Infrared Camera





## Tärkeimmät ominaisuudet

### Superior image quality

- Delivers the clear, crisp images needed to find problems fast with its 320 x 240 sensor.
- Identify even the smallest temperature differences that could indicate problems with thermal sensitivity (NETD)
- Automatic alignment (parallax correction) of visual and infrared images with Fluke patented IR-Fusion®
- Optional telephoto and wide angle lenses available for added versatility and special applications. (easily installable in the field)

## Tuotekatsaus: Fluke Ti32 Infrared Camera

### When You Need to See the Smallest Visual and Thermal Details from Short or Long Distances

The Ti32 combines powerful 320 x 240 resolution with IR-Fusion® Technology, the blending of digital and infrared images into a single image, delivering strikingly crisp detailed images, making problem detection extremely easy. Identifying issues and easily reporting findings can be a challenge. AutoBlend™ lets you make a difference with each thermal inspection every time, as it gives you the ability to identify issues and report easier with partially transparent images.

### Powerful and Versatile for Advanced Infrared Troubleshooting

If you are performing electrical and mechanical applications, including switch gear and utility inspections, the Ti32 is ideal for you. That's because it has thermal sensitivity of  $\pm 0.045\text{ }^{\circ}\text{C}$  at  $30\text{ }^{\circ}\text{C}$  (45 mK) and a temperature range from  $-20\text{ }^{\circ}$  to  $600\text{ }^{\circ}\text{C}$  ( $-4\text{ }^{\circ}$  to  $1112\text{ }^{\circ}\text{F}$ ). Stop relying on pen and paper – let the voice annotation feature make documenting specific details easier than ever. For added versatility in your special applications, add our field-installable telephoto and wide angle lenses.

For applications that require a high temperature range and low thermal sensitivity (NETD), the [Ti400](#) is an alternative choice. It features wireless connectivity for quick and easy sharing of images, LaserSharp® Auto Focus for consistently in-focus images – every, single, time and a ruggedized high resolution 640 x 480 capacitive touch screen for quick menu navigation.

As always, [Fluke SmartView® software](#) is included at no additional charge.

Additional key features

### Easy to use

- Field replaceable batteries give you maximum flexibility no matter where your work takes you.
- Intuitive, three-button menu is easy to use—simply navigate with the push of a thumb.
- No need to carry pen and paper—record findings by speaking into the imager. Voice annotations can be recorded with every image you take. Voice comments are saved along with individual images for future reference.
- One-handed focus capability, emissivity correction, reflected background temperature compensation, and transmission correction increase the accuracy of measurements in most situations.
- Adjustable hand strap for left-or right-handed use.
- Everything needed to get started is included.

### Rugged

- Optimized for field use in challenging work environments.
- Engineered and tested to withstand a 2 m (6.5 ft) drop for the ultimate peace of mind - When was the last time you dropped a tool or piece of equipment?
- Withstands dust and water—tested to an IP54 rating.
- Manufactured in the U.S.A.

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Temperature		
Temperature measurement range (not calibrated below -10 °C)	-20 °C to +600 °C (-4 °F to +1112 °F)	
Temperature measurement accuracy	±2 °C or 2% (at 25 °C nominal, whichever is greater)	
On-screen emissivity correction	Yes	
On-screen reflected background temperature compensation	Yes	
On-screen transmission correction	Yes	
Imaging Performance		
Image capture frequency	9 Hz refresh rate or 60 Hz refresh rate depending upon model variation	
Detector type	320 X 240 Focal Plane Array, uncooled microbolometer	
Thermal sensitivity (NETD)	□ 0.045 degrees C and 45 mK	
Total pixels	76,800	
Infrared spectral band	7.5 μm to 14 μm (long wave)	
Visual (visible light) camera	Industrial performance 2.0 megapixel	
Minimum focus distance	46 cm (approx. 18 in)	
Standard infrared lens type	<b>Field of view</b>	23 ° x 17 °
	Spatial resolution (IFOV)	1.25 mRad
	Minimum focus distance	15 cm (approx. 6 in)
Optional telephoto infrared lens type	<b>Field of view</b>	11.5 ° x 8.7 °
	Spatial resolution (IFOV)	0.63 mRad
	Minimum focus distance	45 cm (approx. 18 in)
Optional wide-angle infrared lens type	<b>Field of view</b>	46 ° x 34
	Spatial resolution (IFOV)	2.50 mRad
	Minimum focus distance	7.5 cm (approx. 3 in)
Focus mechanism	Manual, one-handed Smart Focus capability	
Image Presentation		

Palees	<b>Standard</b>	Ironbow, blue-red, high coast, amber, amber inverted, hot metal, grayscale, grayscale inverted
	Ultra Coast™	Ironbow ultra, blue-red ultra, high coast ultra, amber ultra, amber inverted ultra, hot metal ultra, grayscale ultra, grayscale inverted
Level and span	Smooth auto-scaling and manual scaling of level and span	
Fast auto toggle between manual and auto modes	Yes	
Fast auto-rescale in manual mode	Yes	
Minimum span (in manual mode)	2.5 °C (4.5 °F)	
Minimum span (in auto mode)	5 °C (9 °F)	
<b>IR-Fusion® Information</b>		
Automatically aligned (parallax corrected) visual and IR blending	Yes	
Picture-in-picture (PIP)	Three levels of on-screen IR blending displayed in center of LCD	
Full screen infrared	Three levels of on-screen IR blending displayed in center of LCD	
Color alarms (temperature alarms)	High-temperature alarm (user-selectable)	
<b>Image Capture and Data Storage</b>		
Image capture, review, save mechanism	The Ti32 allows user to adjust palee, blending, level, span, IR-Fusion® mode, emissivity, and reflected background temperature compensation, and transmission correction on a captured image before it is stored.	
Voice annotation	60 seconds™ maximum recording time per image; reviewable playback on imager	
Storage medium	One-handed image capture, review, and save capability	
File formats	SD Memory Card (2 GB memory card will store at least 1200 fully radiometric (.is2) IR and linked visual images each with 60 seconds voice annotations, or 3000 basic bitmap (.bmp) images, or 3000 jpeg (.jpeg) images; transferrable to PC via included multi-format USB card reader	
Export file formats w/SmartView® software	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2) No analysis software required for non-radiometric (.bmp and .jpeg) files	
<b>General Specifications</b>		
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 baeries	
Relative humidity	10% to 95% non-condensing	
Display	9.1 cm (3.7 in) diagonal landscape color VGA (640 x 480) LCD with backlight and clear protective cover	

Cools 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 (other custom markers and shapes in SmartView® software) High temperature alarm User selectable backlight: "Full Bright" or "Auto" Information display preference
Software	SmartView® full analysis and reporting software included
Baeries	Two lithium ion rechargeable smart baery packs with five-segment LED display to show charge level
Baery life	Four+ hours continuous use per baery pack (assumes 50% brightness of LCD)
Baery charge time	2.5 hours to full charge
AC baery charging	Two-bay AC baery charger (110 V AC to 220 V AC, 50/60 Hz) (included), or in-imager charging. AC mains adapters included. Optional 12 V automotive charging adapter.
AC operation	AC operation with included power supply (110 V AC to 220 V AC, 50/60 Hz). AC mains adapters included.
Power saving	Sleep mode activated after five minutes of inactivity, automatic power off after 30 minutes of inactivity
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	Meets all applicable requirements in EN61326-1:2006
C Tick	IEC/EN 61326-1
US FCC	CFR 47, Part 15 Class B
Vibration	0.03 g <sup>2</sup> /Hz (3.8 grms), IEC 68-2-6
Shock	25 g, IEC 68-2-29
Drop	2 m (6.5 ft) with standard lens
Dimensions (H x W x L)	27.7 x 12.2 x 17.0 cm (10.9 x 4.8 x 6.7 in)
Weight (baery included)	1.05 kg (2.3 lb)
Enclosure rating	IP54 (protected against dust, limited ingress; protection against water spray from all directions)
Warranty	Two-years (standard)
Recommended calibration cycle	Two-years (assumes normal operation and normal aging)
Supported languages	Czech, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish



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