Технические данные

Fluke Ti32 Infrared Camera

Ключевые особенности

Обзор прибора: 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 ≤ 0.045 °C at 30 °C (45 mK) and a temperature range from -20 ° to 600 °C (-4 ° to 1112 °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.

Характеристики: Fluke Ti32 Infrared Camera

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	**Field of view**	23 ° x 17 °
	Spatial resolution (IFOV)	1.25 mRad
	Minimum focus distance	15 cm (approx. 6 in)
Optional telephoto infrared lens type	**Field of view**	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	**Field of view**	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		
Palettes	**Standard**	Ironbow, blue-red, high contrast, amber, amber inverted, hot metal, grayscale, grayscale inverted
	Ultra Contrast™	Ironbow ultra, blue-red ultra, high contrast 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)
IR-Fusion® Information	
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)
Image Capture and Data Storage	
Image capture, review, save mechanism	The Ti32 allows user to adjust palette, 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
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
Display	9.1 cm (3.7 in) diagonal landscape color VGA (640 x 480) LCD with backlight and clear protective cover
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 (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
Batteries	Two lithium ion rechargeable 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)
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 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^2/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 (battery 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

Fluke. *Keeping your world up and running.®*

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