



Ti50 and Ti55 IR FlexCam® Thermal Imagers

The professional's choice when demanding the highest sensitivity

Choose the Fluke Ti5x models when you need the best images. They feature 320 x 240 detectors with industry leading thermal sensitivity (≤ 0.07 °C NETD) for high resolution, ultra high-quality images. In addition, with a 60 Hz detector acquisition rate temperatures are displayed live on the large 5-inch color display.

Features

	TISSTT	TISS	TISOFT	TISO	
High resolution, low noise VOx detector for high quality images		320 x 240			
Temperature range to cover broad industrial applications	-20 to +600 °C	-20 to +600 °C (-4 °F to 1112 °F) -20 to +350 °C (-4 °F to 662			
High thermal sensitivity for viewing even the smallest temperature differences	≤0.07 °C				
180° articulating flexible lens to view images in every situation	•	•	•		
Choice of 3 interchangeable lenses to cover every application	•	•	•	•	
Large 5" high contrast color LCD for a clear picture independent of lighting conditions	•	•	•	•	
Fully radiometric for detailed temperature analysis and tracking	•	•	•	•	
SmartFocus for best image quality and accurate temperature measurements	•	•	•	•	
Windows* CE based menu structure for ease of use	•	•	•	•	
Personalized instrument set-up for multiple use	•	•	•	•	
CompactFlash memory cards to store over 1000 IR images plus fully radiometric temperature data	•	•	•	•	
SmartView reporting and analysis software included	•	•	•	•	
AutoCapture for making intermittent problems visible	•	•			
On-board analysis functions	•	•			
User defined text annotations for simplified reporting	•	•			
Built-in visible light (digital) camera	•		•		
IR-Fusion blending thermal and visible light images to easily pinpoint suspect components	•		•		
IR/Visible Alarm function	•				
Laser pointer for easy targeting	•		•		
Plash and torch light for high quality images in dark environments	•		•		

Typical applications

- Predictive maintenance Identify electrical and mechanical problems before they cause failure
- Power/utilities Real-time analysis of substations, transmission lines and equipment
- Process monitoring Real-time observation to ensure efficient and safe operation
- Research and development Quantify heat patterns to improve product designs
- Electronic design Close up circuit board analysis



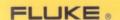
Printed circuit board



Power/utilities



Electrical system



Specifications

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Imaging performance	Thermal		100		
	Field of view (FOV)*	23° horizontal x 17° vertical			
	Spatial resolution (IFOV)*				
	Min focus distance*	0.15 m ≤0.07 °C at 30 °C 60 Hz/30 Hz			
	Thermal sensitivity (NETD)				
	Detector data acquisition /				
	Image frequency	Country on the first	nger continuous focus		
	Pocus		2x		
	IR digital zoom	EA, TA, UA			
	Detector type	320 x 240 Focal Plane Array, Vanadium Oxide (VOx) Uncooled Microbolomete with 25 micron pitch 8 μm to 14 μm			
	Spectral band				
	Digital image enhancement	Automatic full-time enhanced			
	Visual (IR-Fusion models only)				
	On camera operating modes				
	On camera operating modes	Full inermal, full visual agric or inerged themaar-visual imag Picture-in-Picture 1280 x 1024 pixels, full color			
	Visible light camera				
	Visible light digital zoom	2x, 4x, 8x	2x		
l'emperature measurement	Calibrated temperature range	-20 °C to 600 °C (-4 °P to 1112 °P) in 3 ranges	-20 °C to 360 °C (-4 °P to 662 °P) in 2 ran		
		Range 1 = -20 °C to 100 °C (-4 °F to 212 °F)	Range 1 = -20 °C to 100 °C (-4 °F to 212		
		Range 2 = -20 °C to 350 °C (32 °F to 662 °F)	Range 2 = -20 °C to 350 °C (32 °F to 662		
		Range 3 = 250 °C to 600 °C [482 °F to 1112 °F]	-		
	Accuracy	±2 °C or 2% whi	chever is greater)		
	Measurement modes	Centerpoint, center box [area min/max,			
		average), moveable spots/boxes, user defined field/text annotations, isotherms,	Centerpoint, center box		
		automatic hot and cold point detection,	area min/max, average		
		visible color alarm above and below			
	Emissivity correction	0.1 to 1,0 (0.0	l increments		
Image presentation	Digital display	5° large high-resolution digital display Sunlight readable color LCD			
image presentation	LCD backlight				
		RS170 EIA/NTSC or CCIR/PAL composite video			
		RS 170 PIA/MTSC of CC	IR/PAL composite video		
	Video output				
	Palettes	Grayscale, grayscale inverted, blue red, high con	trast, hot metal, ironbow, amber, amber inver-		
Optional lenses	Palettes 54 mm Telephoto lens	Grayscale, grayscale inverted, blue red, high con High precision (trast, hot metal, ironbow, amber, amber inver Germanium lens		
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Image and data storage Interfaces and software Laser [R-Pusion models only] Controls and adjustments Power Environmental and mechanical	Palettes 54 mm Telephoto lens Field of view [FOV] Min focus distance 10.5 mm wide angle lens Field of view [FOV] Min focus distance 10.5 mm wide angle lens Field of view [FOV] Min focus distance Storage medium File formats supported Interface Software Classification Laser targeting Set-up controls Image controls Image controls Battery type Battery operating time Battery charging AC operation Fower saving Operating temperature Storage temperature Storage temperature Storage temperature Storage temperature Relative humidity Water and dust resistant	Grayscale, grayscale inverted, blue red, high con High precision (9" horizontal 0.47 0.5 High precision (42" horizontal 42" horizontal 2.48 0.3 Compact flash card stores over 100 14 bit measurement data included. E Compact flash card stores over 100 Compact flash card stores over 100 Laser dot visible on scroen when I Date/time, temperature units C/F, langua Level, span, auto adju Battery status, target emissivity, back Li-lon smart battery, reeh 3 hours continuous operation [2] 2 hay intelligent charge AC adapter 110/2/20 VAC, 50/50 Hz Automatic shuddown and 1 -10 "C to +50" 0 Operating and storage [9] 1.95 kg 162 x 262 x 101 mm [6]	trast, hot metal, ironbow, amber, amber invertigermanium lens is x 6" vertical imrad it is 7" vertical imrad it is 6" vertical imrad it is 7" vertical imrad it is 8" vertical imrad it reporting software included is 8" il is beinding thermal and visible image ige, scale, LCD intensity (high/normal/low) ist (continuous/manual) ist (continuous/manual) ist (continuous/manual) ist (continuous/manual) ist powered via AC outlet ist (14 Pt to 122 Pt) ist 9" to 185 Pt) ist 19 vertical invertical inv		

^{*}standard 20 mm Germanium lens



Included accessories

Heavy duty carrying case
2 rechargeable battery packs
Battery charger
AC adapter [for TiSS model only]
Video cable
512 MB compact flash card
Compact flash card reader
and USB cable
PCMCIA compact flash card reader
Neck strap
SmartView reporting and analysis
software on CD
User manual on CD

Ordering information

ermal
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*For ordering information of optional lenses check the Fluke web



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