



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 (≤ 0.05 °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

	Ti55FT	Ti55	Ti50FT	Ti50
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 +350 °C	
High thermal sensitivity for viewing even the smallest temperature differences	≤0.0	5 ℃	≤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	•		•	
Flash and torch light for high quality images in dark environments	•		•	

Typical applications

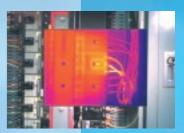
- Predictive maintenance Identify electrical and mechanical problems before they cause failure
- Power/utilities Real-time analysis of substations, transmission lines and equipment
- Process monitoring Real-time observation to ensure efficient and safe operation
- Research and development Quantify heat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



Printed circuit board



Power/utilities



Electrical system



Specifications

		Fluke Ti55	Fluke Ti50	
Imaging performance	Thermal			
	Field of view (FOV)*	23° horizontal		
	Spatial resolution (IFOV)*		mrad	
	Min focus distance*		5 m	
	Thermal sensitivity (NETD)	≤0.05 °C at 30 °C	≤0.07 °C at 30 °C	
	Detector data acquisition /	60 Hz/	/30 Hz	
	Image frequency	0		
	Focus	SmartFocus; one fing	ger continuous rocus 2x	
	IR digital zoom	2x, 4x, 8x		
	Detector type	320 x 240 Focal Plane Array, Vanadium with 25 m		
	Spectral band	8 µm to 14 µm Automatic full-time enhanced		
	Digital image enhancement			
	Visual (IR-Fusion models only)	natonatio iai	time emiliated	
	On camera operating modes	Full thermal full visual	light or merged thermal-visual images.	
	on camera operating modes	Picture-in-Picture		
	Visible light camera		ixels, full color	
	Visible light digital zoom	2x, 4x, 8x	2x	
m				
Temperature measurement	Calibrated temperature range	-20 °C to 600 °C in 3 ranges	-20 °C to 350 °C in 2 ranges	
		Range 1 = -20 °C to 100 °C	Range 1 = -20 °C to 100 °C	
		Range 2 = -20 °C to 350 °C	Range 2 = -20 °C to 350 °C	
		Range 3 = 250 °C to 600 °C	-	
	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	1 increments)	
Image presentation	Digital display	E" lovgo bigh vogoly	ytion digital dignlary	
mage presentation		5" large high-resolution digital display Sunlight readable color LCD		
	ICD backlight	Cuplight reads	able color I CD	
	LCD backlight	_		
	Video output	RS 170 EIA/NTSC or CCI	IR/PAL composite video	
	Video output Palettes	RS170 EIA/NTSC or CCI Grayscale, grayscale inverted, blue red, high con	IR/PAL composite video trast, hot metal, ironbow, amber, amber inver	
Optional lenses	Video output Palettes 54 mm Telephoto lens	RS170 EIA/NTSC or CCI Grayscale, grayscale inverted, blue red, high con High precision (IR/PAL composite video trast, hot metal, ironbow, amber, amber inver Germanium lens	
Optional lenses	Video output Palettes 54 mm Telephoto lens Field of view (FOV)	RS170 EIA/NTSC or CCI Grayscale, grayscale inverted, blue red, high con High precision (9° horizontal	IR/PAL composite video trast, hot metal, ironbow, amber, amber inver Germanium lens x 6° vertical	
Optional lenses	Video output Palettes 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV)	RS170 EIA/NTSC or CCI Grayscale, grayscale inverted, blue red, high con High precision (9° horizontal 0.47	IR/PAL composite video trast, hot metal, ironbow, amber, amber inver Germanium lens x 6° vertical mrad	
Optional lenses	Video output Palettes 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance	RS170 EIA/NTSC or CCI Grayscale, grayscale inverted, blue red, high con High precision (9° horizontal 0.47 0.6	IR/PAL composite video trast, hot metal, ironbow, amber, amber inver Sermanium lens $\mathbf{x} \in 0^{\circ}$ vertical mrad	
Optional lenses	Video output Palettes 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens	RS170 EIA/NTSC or CCI Grayscale, grayscale inverted, blue red, high con High precision (9° horizontal 0.47 0.66 High precision (IR/PAL composite video trast, hot metal, ironbow, amber, amber inversermanium lens \mathbf{x} 6^{v} vertical mrad \mathbf{x} images \mathbf{x} in 6^{v} vertical mrad \mathbf{x} is \mathbf{m} definition lens	
Optional lenses	Video output Palettes 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens Field of view (FOV	RS170 EIA/NTSC or CCI Grayscale, grayscale inverted, blue red, high con High precision (9° horizontal 0.47 0.66 High precision (42° horizontal	IR/PAL composite video trast, hot metal, ironbow, amber, amber inver Germanium lens x 6° vertical mrad is m Germanium lens x 3° vertical	
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^{*}standard 20 mm Germanium lens



Included accessories

Heavy duty carrying case 2 rechargeable battery packs Battery charger AC adapter (for Ti55 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*

Fluke Ti50-20 IR FlexCam Thermal Imager Fluke Ti50FT-20 IR FlexCam Thermal Imager with IR-Fusion Fluke Ti55-20 IR FlexCam Thermal Imager Fluke Ti55FT-20 IR FlexCam Thermal Imager with IR-Fusion

*For ordering information of optional lenses check the Fluke web



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