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PEWA



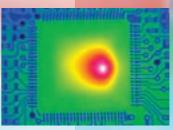
Ti50 and Ti55 IR FlexCam[®] Thermal Imagers

The professional's choice when demanding the highest sensitivity

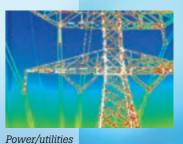
Choose the Fluke Ti5x models when you need the best images. They feature 320×240 detectors with industry leading thermal sensitivity (≤ 0.05 °C NETD) for high resolution, ultra highquality images. In addition, with a 60 Hz detector acquisition rate temperatures are displayed live on the large 5-inch color display.

Features

	Ti55FT	Ti55	TiSOFT	Ti50
High resolution, low noise VOx detector for high quality images		320 x 240		
Temperature range to cover broad industrial applications	-20 to -	-20 to +600 ℃ -20 to +350 °		+350 °C
High thermal sensitivity for viewing even the smallest temperature differences	≤0.C	≤0.05 °C ≤0.07 °C		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	•		•	



Printed circuit board



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



Electrical system

Specifications

Imaging performance Thermal Fluke Til		
Imaging performance Thermal	55 Fluke Ti50	
Field of view (FOV)*	23° horizontal x 17° vertical	
Spatial resolution (IFOV)*	1.30 mrad	
Min focus distance*	0.15 m	
Thermal sensitivity (NETD) ≤0.05 °C at 5		
Detector data acquisition /	60 Hz/30 Hz	
Image frequency		
Focus	SmartFocus; one finger continuous focus	
IR digital zoom 2x, 4x, 8		
Detector type 320 x 240 Focal PI	lane Array, Vanadium Oxide (VOx) Uncooled Microbolometer with 25 micron pitch	
Spectral band	8 µm to 14 µm	
Digital image enhancement	Automatic full-time enhanced	
Visual (IR-Fusion models only)	Automatic full-time emilanced	
	Full thermal, full visual light or merged thermal-visual images.	
on camera operaung modes	Picture-in-Picture	
Visible light camera	1280 x 1024 pixels, full color	
Visible light digital zoom 2x, 4x, 8		
Temperature measurement Calibrated temperature range -20 °C to 600 °C		
Range 1 = -20 °C		
Range 2 = -20 °C		
Range 3 = 250 °C		
Accuracy	±2 °C or 2% (whichever is greater)	
Measurement modes Centerpoint, center box		
average), moveable sp defined field/text appet		
defined field/text annota automatic hot and cold		
visible color alarm ab	bove and below	
Emissivity correction	0.1 to 1.0 (0.01 increments)	
Image presentation Digital display LCD backlight	5" large high-resolution digital display	
	Sunlight readable color LCD RS 170 EIA/NTSC or CCIR/PAL composite video	
	ed, blue red, high contrast, hot metal, ironbow, amber, amber invert	
	-	
Optional lenses 54 mm Telephoto lens	High precision Germanium lens	
	9° horizontal x 6° vertical	
Field of view (FOV)		
Field of view (FOV) Spatial resolution (IFOV)	0.47 mrad	
Spatial resolution (IFOV) Min focus distance	0.6 m	
Spatial resolution (IFOV)	0.6 m High precision Germanium lens	
Spatial resolution (IFOV) Min focus distance	0.6 m	
Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens	0.6 m High precision Germanium lens	
Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens Field of view (FOV	0.6 m High precision Germanium lens 42° horizontal x 32° vertical	
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*standard 20 mm Germanium lens



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

Included accessories

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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