



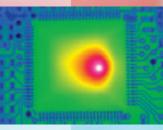
## Ti50 and Ti55 IR FlexCam<sup>®</sup> Thermal Imagers

# The professional's choice when demanding the highest sensitivity

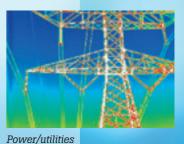
Choose the Fluke Ti5x models when you need the best images. They feature  $320 \times 240$  detectors with industry leading thermal sensitivity ( $\leq 0.07$  °C NETD) for high resolution, ultra highquality images. In addition, with a 60 Hz detector acquisition rate temperatures are displayed live on 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 +600 °C	(-4 °F to 1112 °F)	-20 to +350 °C	(-4 °F to 662 °F)
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	•		•	
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**

		Fluke Ti55	Fluke Ti50	
Imaging performance	Thermal	00011	100	
	Field of view (FOV)*	23° horizontal x 17° vertical 1.30 mrad 0.16 m ≤0.07 °C at 30 °C 60 Hz/30 Hz		
	Spatial resolution (IFOV)*			
	Min focus distance*			
	Thermal sensitivity (NETD)			
	Detector data acquisition /			
	Image frequency			
	Focus	SmartFocus; one fing		
	IR digital zoom	2x, 4x, 8x     2x       320 x 240 Focal Plane Array, Vanadium Oxide (VOX) Uncooled Microbolometer with 25 micron pitch		
	Detector type			
	Spectral band	8 µm to 14 µm Automatic full-time enhanced		
	Digital image enhancement	Full thermal, full visual light or merged thermal-visual images Picture-in-Picture 1280 x 1024 pixels, full color		
	Visual (IR-Fusion models only)			
	On camera operating modes			
	Visible light camera			
	Visible light digital zoom	2x, 4x, 8x	2x	
Temperature measurement	Calibrated temperature range	-20 °C to 600 °C (-4 °F to 1112 °F) in 3 ranges	-20 °C to 350 °C (-4 °F to 662 °F) in 2 rang	
		Range $1 = -20$ °C to 100 °C (-4 °F to 212 °F)	Range 1 = -20 °C to 100 °C (-4 °F to 212 °C	
		Range 2 = $-20$ °C to 350 °C (32 °F to 662 °F)	Range 2 = $-20$ °C to 350 °C (32 °F to 662 °C	
		Range $3 = 250$ °C to $600$ °C ( $482$ °F to $1112$ °F)		
	Accuracy	$\frac{\text{Range 3} = 250 \text{ c to 800 \text{ c } (482 \text{ F to 1112 \text{ F})}}{\pm 2  °C or 2\% (whi$	-	
	Accuracy		cnever 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	5" large high-resolution digital display		
image presentation	LCD backlight	Sunlight reada		
	Video output Palettes	RS170 EIA/NTSC or CCIR/PAL composite video Grayscale, grayscale inverted, blue red, high contrast, hot metal, ironbow, amber		
Optional lenses	54 mm Telephoto lens	High precision Germanium lens		
	Field of view (FOV)	9° horizontal x 6° vertical 0.47 mrad		
	Spatial resolution (IFOV)			
	Min focus distance	0.6	m	
	10.5 mm wide angle lens	High precision Germanium lens 42° horizontal x 32° vertical		
	Field of view (FOV			
	Field of view (FOV		x 32° vertical	
		42° horizontal	x 32° vertical	
	Field of view (FOV Spatial resolution (IFOV) Min focus distance	42° horizontal 2.45 0.3	x 32° vertical mrad m	
Image and data storage	Field of view (FOV Spatial resolution (IFOV) Min focus distance Storage medium	42° horizontal 2.45 0.3 Compact flash card stores over 1000	x 32° vertical mrad m D IR images (512 MB card standard)	
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	Field of view (FOV Spatial resolution (IFOV) Min focus distance Storage medium File formats supported	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E	x 32° vertical mrad m D IR images (512 MB card standard) portable JPEG, BMP, PCX, PNG, PSD.	
	Field of view (FOV Spatial resolution (IFOV) Min focus distance Storage medium	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E Compact flash car	x 32° vertical mrad m D IR images (512 MB card standard) cportable JPEG, BMP, PCX, PNG, PSD. d reader included	
Interfaces and software	Field of view (FOV Spatial resolution (IFOV) Min focus distance Storage medium File formats supported Interface Software	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E Compact flash car SmartView; Full analysis and	x 32° vertical mrad m D IR images (512 MB card standard) oportable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included	
Interfaces and software	Field of view (FOV Spatial resolution (IFOV) Min focus distance Storage medium File formats supported Interface Software Classification	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E Compact flash car SmartView; Full analysis and Clas	x 32° vertical mrad m D IR images (512 MB card standard) coprtable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included ss II	
Image and data storage Interfaces and software Laser (IR-Fusion models only)	Field of view (FOV Spatial resolution (IFOV) Min focus distance Storage medium File formats supported Interface Software	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E Compact flash car SmartView; Full analysis and	x 32° vertical mrad m D IR images (512 MB card standard) coprtable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included ss II	
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Interfaces and software Laser (IR-Fusion models only)	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls	42° horizontal 2.45 0.3 Compact flash card stores over 100 14 bit measurement data included. E Compact flash car SmartView; Full analysis and Clas Laser dot visible on screen when h Date/time, temperature units C/F, languag	x 32° vertical mrad m D IR images (512 MB card standard) oportable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included ss II lending thermal and visible image re, scale, LCD intensity (high/normal/low)	
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Interfaces and software Laser (IR-Fusion models only) Controls and adjustments	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E Compact flash car SmartView; Full analysis and Clas Laser dot visible on screen when h Date/time, temperature units C/F, languag Level, span, auto adjus Battery status, target emissivity, backg	x 32° vertical mrad m m D IR images (512 MB card standard) oportable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included is II lending thermal and visible image je, scale, LCD intensity (high/normal/low) t (continuous/manual) round temperature and realtime clock	
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Interfaces and software Laser (IR-Fusion models only) Controls and adjustments	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators         Battery type         Battery type	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E Compact flash card Compact flash car Compact flash car Clash Laser dot visible on screen when flash Clash Laser dot visible on screen when flash Car Clash Clash Compact flash car Clash Clash Compact flash car Clash Clash Clash Compact flash car Clash C	x 32° vertical mrad m D IR images (512 MB card standard) coportable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included is II lending thermal and visible image [e, scale, LCD intensity (high/normal/low) t (continuous/manual) round temperature and realtime clock regeable, field-replaceable nours for models with IR-Pusion)	
Interfaces and software Laser (IR-Fusion models only) Controls and adjustments	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators         Battery type	42° horizontal 2.45 0.3 Compact flash card stores over 100 14 bit measurement data included. E Compact flash car SmartView; Full analysis and Clast Laser dot visible on screen when F Date/time, temperature units C/F, languag Level, span, auto adjuu Battery status, target emissivity, backg Li-lon smart battery, recha 3 hours continuous operation (2 2 bay intelligent charge	x 32° vertical mrad m D IR images (512 MB card standard) coportable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included is II lending thermal and visible image [e, scale, LCD intensity (high/normal/low) t (continuous/manual) round temperature and realtime clock regeable, field-replaceable nours for models with IR-Pusion)	
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Interfaces and software Laser (IR-Fusion models only) Controls and adjustments	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators         Battery operating time         Battery obarging	42° horizontal 2.45 0.3 Compact flash card stores over 100 14 bit measurement data included. E Compact flash car SmartView; Full analysis and Clast Laser dot visible on screen when F Date/time, temperature units C/F, languag Level, span, auto adjuu Battery status, target emissivity, backg Li-lon smart battery, recha 3 hours continuous operation (2 2 bay intelligent charge	x 32° vertical mrad m m D IR images (512 MB card standard) oportable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included is II lending thermal and visible image ge, scale, LCD intensity (high/normal/low) t (continuous/manual) round temperature and realtime clock urgeable, field-replaceable nours for models with IR-Fusion) r powered via AC outlet	
Interfaces and software Laser (IR-Fusion models only) Controls and adjustments Power	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators         Battery type         Battery charging         AC operation         Power saving	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E: Compact flash car SmartView; Full analysis and Clas Laser dot visible on screen when h Date/time, temperature units C/F, languag Level, span, auto adjus Battery status, target emissivity, backg Li-lon smart battery, rech 3 hours continuous operation (2 2 bay intelligent charge AC adapter 110/220 VAC, 50/60 Hz Automatic shutdown and si	x 32° vertical mrad m m D IR images (512 MB card standard) cportable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included is II lending thermal and visible image ge, scale, LCD intensity (high/normal/low) t (continuous/manual) round temperature and realtime clock urgeable, field-replaceable nours for models with IR-Fusion) r powered via AC outlet = eep modes (user specified)	
Interfaces and software Laser (IR-Fusion models only) Controls and adjustments Power Environmental and mechanical	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators         Battery type         Battery charging         AC operation         Power saving         Operating temperature	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E Compact flash card Compact flash card Compact flash card Card Laser dot visible on screen when h Date/time, temperature units C/F, languag Level, span, auto adjus Battery status, target emissivity, backg Li-lon smart battery, reche 3 hours continuous operation (2 2 bay intelligent charge AC adapter 110/220 VAC, 50/60 Hz Automatic shutdown and si	x 32° vertical mrad m D IR images (512 MB card standard) oportable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included is II lending thermal and visible image pe, scale, LCD intensity (high/normal/low) t (continuous/manual) round temperature and realtime clock urgeable, field-replaceable hours for models with IR-Fusion) r powered via AC outlet - eep modes (user specified) (14 °F to 122 °F)	
Interfaces and software Laser (IR-Fusion models only) Controls and adjustments Power	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators         Battery type         Battery charging         AC operation         Power saving         Operating temperature         Storage temperature	42° horizontal 2.45 0.3 Compact flash card stores over 100 14 bit measurement data included. E Compact flash card Compact flash car Compact flash car SmartView; Full analysis and Clas Laser dot visible on screen when E Date/time, temperature units C/F, languag Level, span, auto adjus Battery status, target emissivity, backg Li-Ion smart battery, reche 3 hours continuous operation (2 2 bay intelligent charge AC adapter 110/220 VAC, 50/60 Hz Automatic shutdown and si -10 °C to +50 °C -40 °C to +70 °C	x 32° vertical mrad m D IR images (512 MB card standard) O IR images (512 MB card standard) goptable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included is II lending thermal and visible image (e, scale, LCD intensity (high/normal/low) t (continuous/manual) round temperature and realtime clock urgeable, field-replaceable nours for models with IR-Fusion) r powered via AC outlet 	
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Interfaces and software Laser (IR-Fusion models only) Controls and adjustments Power Environmental and mechanical	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators         Battery type         Battery charging         AC operation         Power saving         Operating temperature         Storage temperature         Relative humidity         Water and dust resistant	42° horizontal 2.45 0.3 Compact flash card stores over 100 14 bit measurement data included. E Compact flash card SmartView; Full analysis and Clast Laser dot visible on screen when F Date/time, temperature units C/F, languag Level, span, auto adjus Battery status, target emissivity, backg Li-lon smart battery, recht 3 hours continuous operation (2 2 bay intelligent charge AC adapter 110/220 VAC, 50/60 Hz Automatic shutdown and s -10 °C to +50 °C -40 °C to +70 °C	x 32° vertical mrad m m D IR Images (512 MB card standard) oprable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included s II lending thermal and visible image re, scale, LCD intensity (high/normal/low) tt (continuous/manual) round temperature and realtime clock rgeable, field-replaceable nours for models with IR-Pusion) r powered via AC outlet - eep modes (user specified) (14 °F to 122 °F) (-40 °F to 158 °F) to 95%, non-condensing 54	
Interfaces and software Laser (IR-Fusion models only) Controls and adjustments Power Environmental and mechanical	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators         Battery type         Battery charging         AC operating temperature         Storage temperature         Storage temperature         Water and dust resistant         Weight (including batteries)	42° horizontal 2.45 0.3 Compact flash card stores over 1000 14 bit measurement data included. E Compact flash card Compact flash car SmartView; Full analysis and Clas Laser dot visible on screen when h Date/time, temperature units C/F, languag Level, span, auto adjus Battery status, target emissivity, backg Li-Ion smart battery, reche 3 hours continuous operation (2 2 bay intelligent charge AC adapter 110/220 VAC, 50/60 Hz Automatic shutdown and si -10 °C to +50 °C -40 °C to +70 °C Operating and storage 109 IPH	x 32° vertical mrad m D IR images (512 MB card standard) D IR images (512 MB card standard) portable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included is II lending thermal and visible image pe, scale, LCD intensity (high/normal/low) t (continuous/manual) round temperature and realtime clock urgeable, field-replaceable hours for models with IR-Fusion) r powered via AC outlet 	
Interfaces and software Laser (IR-Fusion models only) Controls and adjustments Power Environmental and mechanical	Field of view (FOV         Spatial resolution (IFOV)         Min focus distance         Storage medium         File formats supported         Interface         Software         Classification         Laser targeting         Set-up controls         Image controls         On-screen indicators         Battery type         Battery charging         AC operation         Power saving         Operating temperature         Storage temperature         Relative humidity         Water and dust resistant	42° horizontal 2.45 0.3 Compact flash card stores over 100 14 bit measurement data included. E Compact flash card SmartView; Full analysis and Clast Laser dot visible on screen when F Date/time, temperature units C/F, languag Level, span, auto adjus Battery status, target emissivity, backg Li-lon smart battery, recht 3 hours continuous operation (2 2 bay intelligent charge AC adapter 110/220 VAC, 50/60 Hz Automatic shutdown and s -10 °C to +50 °C -40 °C to +70 °C	x 32° vertical mrad m D IR images (512 MB card standard) O IR images (512 MB card standard) oportable JPEG, BMP, PCX, PNG, PSD. d reader included reporting software included is II lending thermal and visible image ye, scale, LCD intensity (high/normal/low) t (continuous/manual) round temperature and realtime clock urgeable, field-replaceable hours for models with IR-Fusion) r powered via AC outlet 	

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To find out more about Fluke thermal imagers go to www.fluke.com/thermography or in the United States call **1-800-760-4523**.

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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\*

uke T150-20	IR FlexCam Thermal
	Imager
uke Ti50FT-20	IR FlexCam Thermal
	Imager with IR-Fusior
uke Ti55-20	IR FlexCam Thermal
	Imager
uke Ti55FT-20	IR FlexCam Thermal
	Imager with IR-Fusior

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

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