



Model number	TI50FT
Other Features	
Detector size	320 x 240
Detector type	Uncooled Microbolometer, Focal Plane Array
Field of View (FOV)	23° horizontal x 17° vertical
Spatial Resolution (IFOV)	1.30 mrad
Minimum Focus Distance	0.15 m
Thermal Sensitivity (NETD)	≤0.07 °C at 30 °C (70 mK)
Detector data acquisition/ ###Image frequency	60 Hz or 7.5 Hz
Focus	SmartFocus manual
IR Digital Zoom	2x
Spectral Band	8 μm to 14 μm
Measurement modes	
Centerpoint	Yes
Center box (area, min/max, average)	Yes
User defined spots/boxes	in software only
Advanced on-board analysis functions	Yes
User defined field/text annotations	No
Voice annotation	No
Automatic hot and cold point detection	in software only
Image presentation	
Digital display	5" High Resolution LCD
Video output	RS170 EIA/NTSC or CCIR/PAL composite video
Palettes	8
Optional lenses	
54 mm Telephoto	Yes
10.5 mm Wide angle lens	Yes
Image and data storage	
Storage medium	> 1000 images on compact flash card (512 MB)
File formats supported in software	BMP, JPG, GIF, PNG, TIF, WMF, DOC, PDF, XLS
Imager features	
Fully radiometric	Yes
Flash and torch light	Yes
Laser pointer	Yes
Windows CE based navigation menu	Yes
AutoCapture (Programable Image Capture)	No
180° articulating lens	Yes
Software included	Yes (SmartView)
Environmental and mechanical design	
Operating temperature	-10 to +50°C (14 °F to 122 °F)

Storage temperature	-40 to +70°C (-40 °F to 158 °F)
Relative humidity	10% to 95% non-condensing
Water and dust resistant	IP54
Weight (including batteries)	1.95 kg (4.3 lb)
Camera size (HxWxD)	162 x 262 x 101 mm (6.5 in x 10.5 in x 4.0 in)
Warranty	2 years
Power	
Battery type	Li-ion rechargeable battery, field replaceable (2)
Battery operating time	2 hours continuous
Battery re-charge time	3 Hours
AC operation (110/220 VAC, 50/60 Hz)	Optional
Automatic shut down	Yes
Sleep mode	Yes
Applications	
Electrical distribution/power generation	Yes
In plant electrical	Yes
Electromechanical	Yes
Mechanical systems	Yes
Electronics	Yes
Other	Yes
IR-Fusion Technology	
IR-Fusion Technology	Yes
Full thermal	Yes
Full visual light	Yes
Auto Blending	Yes
Picture in Picture	Yes
Color Alarm	Yes
Temperature measurement	
Temperature range	-20 °C to 350 °C in 2 ranges (-4 °F to 662 °F in 2 ranges)
High temperature option	No
Accuracy	±2 °C or 2% whichever is greater
Emissivity correction	Yes

Fluke Corporation
PO Box 9090, Everett, WA USA 98206

Fluke Europe B.V.
PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:
In the U.S.A. (800) 443-5853 or
Fax (425) 446-5116
In Europe/M-East/Africa +31 (0) 40 2675 200 or
Fax +31 (0) 40 2675 222
In Canada (800) 36-FLUKE or
Fax (905) 890-6866
From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116

Web access: <http://www.fluke.com>

©2007 Fluke Corporation. All rights reserved.
Specifications subject to change without notice.