

Fluke Ti50FT and Ti55FT IR FlexCam® Thermal Imagers with IR-Fusion® technology

Specifications	
Imaging performance	<p>Thermal</p> <p>Field of view (FOV) 20 mm lens 23° x 17° FOV 10.5 mm lens 42° x 32° 54 mm lens 9° x 6°</p> <p>Spatial resolution (IFOV)* 1.30 mrad</p> <p>Min focus distance* 0.15 m</p> <p>Thermal sensitivity (NETD) Ti55: ≤ 0.05 °C at 30 °C(50 mK) Ti50: ≤ 0.07 °C at 30 °C(70 mK)</p> <p>Detector data acquisition* 60 Hz</p> <p>Focus SmartFocus; one finger continuous focus</p> <p>IR digital zoom Ti55: 2x, 4x, 8x Ti50: 2x</p> <p>Detector type 320 x 240 Focal Plane Array, Vanadium Oxide (VOx) Uncooled Microbolometer with 25 micron pitch</p> <p>Spectral band 8 μm to 14 μm</p> <p>Digital image enhancement Automatic full-time enhanced</p> <p>Visual</p> <p>On camera operating modes Full Thermal, full visual light or merged thermal-visual images. Picture-in-Picture</p> <p>Visible light camera 1280 x 1024 pixels, full color</p> <p>Visible light digital zoom Ti55: 2x, 4x Ti50: 2x</p>
Temperature measurement	<p>Calibrated temperature range Ti55: -20 °C to 600 °C (-4 to 1112 °F) in 3 ranges Ti50: -20 °C to 350 °C (-4 to 662 °F) in 2 ranges</p> <p>Range 1 Ti55: -20 °C to 100 °C (-4 to 212 °F) Ti50: -20 °C to 100 °C (-4 to 212 °F)</p> <p>Range 2 Ti55: -20 °C to 350 °C (-4 to 662 °F) Ti50: -20 °C to 350 °C (-4 to 662 °F)</p> <p>Range 3 Ti55: 250 °C to 600 °C (482 to 1112 °F)</p> <p>Accuracy ±2 °C or 2 % (whichever is greater)</p> <p>Measurement modes Ti55: Centerpoint, center box (area min/max, average), moveable spots/boxes, user defined field/text annotations, isotherms, automatic hot and cold point detection, visible color alarm above and below Ti50: Centerpoint, center box (area min/max, average)</p> <p>Emissivity correction 0.1 to 1.0 (0.01 increments)</p>
Image presentation	<p>Digital display 5" large high-resolution digital display</p> <p>LCD backlight Sunlight readable color LCD</p> <p>Video output RS170 EIA/NTSC or CCIR/PAL composite video</p> <p>Palettes Grayscale, grayscale inverted, blue red, high contrast, hot metal, ironbow, amber, amber inverted</p>

Optional lenses(Only available at time of purchase)	54 mm Telephoto lens High precision Germanium lens Field of view (FOV) 9 ° horizontal x 6 ° vertical Spatial resolution (IFOV) 0.47 mrad Min focus distance 0.6 m 10.5 mm wide angle lens High precision Germanium lens Field of view (FOV) 42 ° horizontal x 32 ° vertical Spatial resolution (IFOV) 2.45 mrad Min focus distance 0.3 m
Image and data storage	Storage medium Compact flash card stores over 1000 IR images (512 MB card standard) File formats supported 14 bit measurement data included. Exportable JPEG, BMP, PCX, PNG, PSD.
Interfaces and software	Interface Compact flash card reader included Software SmartView; Full analysis and reporting software included
Laser	Classification Class II Laser targeting Laser dot visible on screen when blending thermal and visible image
Controls and adjustments	Set-up controls Date/time, temperature units C/F/K, language, scale, LCD intensity (high/normal/low) Image controls Level, span, auto adjust (continuous/manual) On-screen indicators Battery status, target emissivity, background temperature and real time clock
Power, battery life	Battery type Li-Ion smart battery, rechargeable, field-replaceable Battery operating time 2 hours continuous operation Battery charging AC operation 2 bay intelligent charger powered via AC outlet AC adapter 110/220 VAC, 50/60 Hz (Ti55 only) Power saving Automatic shutdown and sleep modes (user specified)
Environmental and mechanical design	Operating temperature -10 °C to +50 °C (14 °F to 122 °F) Storage temperature -40 °C to +70 °C (-40 °F to 158 °F) Relative humidity Operating and storage 10 % to 95 %, non-condensing Water and dust resistant IP54 Weight (including batteries) 1.95 kg (4.3 lbs) Camera size (HxWxD) 162 x 262 x 101 mm (6.5" x 10.5" x 4.0")
Other	Warranty 2 years

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