

Fluke Ti40 and Ti45 IR FlexCam® Thermal Imagers

Specifications	
<b>Imaging performance</b>	<p>Thermal                      Field of view (FOV)* 23° horizontal x 17° vertical                      Spatial resolution (IFOV)* 2.60 mrad                      Min focus distance* 0.15 m                      Thermal sensitivity (NETD)                      Ti45: ≤0.08 °C at 30 °C                      Ti40: ≤0.09 °C at 30 °C                      Detector data acquisition / Image frequency 30 Hz/30 Hz                      Focus SmartFocus; one finger continuous focus                      IR digital zoom                      Ti45: 2x                      Ti40: -                      Detector type 160 x 120 Focal Plane Array, Vanadium Oxide (VOx) Uncooled Microbolometer                      Spectral band 8 μm to 14 μm                      Digital image enhancement Automatic full-time enhanced                      Visual (Fusion models only)                      On-camera operating modes                      Ti45: Full thermal, full visual light or merged thermal-visual images. Picture-in-Picture                      Ti40: Full thermal or full visual light. Merge thermal-visual images in SmartView software. Picture-in-Picture                      Visible light camera 1280 x 1024 pixels, full color                      Visible light digital zoom                      Ti45: 2x                      Ti40: -</p>
<b>Temperature measurement</b>	<p>Calibrated temperature range                      Ti45: -20 °C to 600 °C (-4 to 1112 °F) in 3 ranges                      Ti40: -20 °C to 350 °C (-4 to 662 °F) in 2 ranges                      Range 1                      Ti45: -20 °C to 100 °C (-4 to 212 °F)                      Ti40: -20 °C to 100 °C (-4 to 212 °F)                      Range 2                      Ti45: -20 °C to 350 °C (-4 to 662 °F)                      Ti40: -20 °C to 350 °C (-4 to 662 °F)                      Range 3                      Ti45: 250 °C to 600 °C (32 to 662 °F)                      Ti40: -                      Optional - High temperature                      Ti45: Up to 1200 °C (2192 °F)                      Ti40: -                      Range 4                      Ti45: 500 °C to 1200 °C (932 to 2192 °F)                      Ti40: -                      Accuracy ±2°C or 2 % (whichever is greater)                      Ti45: 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                      Ti40: Centerpoint, center box (area min/max, average)                      Measurement modes                      Emissivity correction 0.1 to 1.0 (0.01 increments)</p>
<b>Image presentation</b>	<p>Digital display 5" large high-resolution digital display                      LCD backlight Sunlight readable color LCD                      Video output RS170 EIA/NTSC or CCIR/PAL composite video                      Palettes Grayscale, grayscale inverted, blue red, high contrast, hot metal, ironbow, amber, amber inverted</p>
<b>Optional lenses</b>	<p>54 mm Telephoto lens High precision Germanium lens                      Field of view (FOV) 9° horizontal x 6° vertical                      Spatial resolution (IFOV) 0.94 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) 4.9 mrad                      Min focus distance 0.3 m</p>

<b>Image and data storage</b>	Storage medium File formats supported	Compact flash card stores over 1000 IR images (512 MB card standard) 14 bit measurement data included. Exportable JPEG, BMP, PCX, PNG, PSD.
<b>Interfaces and software</b>	Interface Software	Compact flash card reader included SmartView; Full analysis and reporting software included
<b>Laser (IR-Fusion models only)</b>	Classification Laser targeting	Class II Laser dot visible on screen when blending thermal and visible image
<b>Controls and adjustments</b>	Set-up controls Image controls On-screen indicators	Date/time, temperature units C/F, language, scale, LCD intensity (high/normal/low) Level, span, auto adjust (continuous/manual) Battery status, target emissivity, background temperature and real time clock
<b>Power</b>	Battery type Battery operating time Battery charging AC operation Power saving	Li-Ion smart battery, rechargeable, field-replaceable 3 hours continuous operation (2 hours for models with IR-Fusion) 2 bay intelligent charger powered via AC outlet AC adapter 110/220 VAC, 50/60 Hz (Ti45 only) Automatic shutdown and sleep modes (user specified)
<b>Environmental and mechanical design</b>	Operating temperature Storage temperature Relative humidity Water and dust resistant Weight (including batteries) Camera size (HxWxD)	-10 °C to +50 °C (14 °F to 122 °F) -40 °C to +70 °C (-40 °F to 158 °F) Operating and storage 10% to 95%, non-condensing IP54 1.95 kg (4.3 lbs) 162 x 262 x 101 mm (6.5" x 10.5" x 4.0")
<b>Other</b>	Warranty	2 years

\*standard 20 mm Germanium lens

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