

Fluke Ti25 Thermal Imager

Detailed specifications

Temperature	Temperature measurement range (not calibrated below -10 °C) Accuracy On-screen emissivity correction	-20 °C to +350 °C (-4 °F to + 662 °F) (two ranges) ± 2 °C or 2 % (whichever is greater) Yes
Imaging performance	Field of view Spatial resolution (IFOV) Minimum focus distance Focus Image frequency Detector type Infrared lens type Thermal sensitivity (NETD) Infrared spectral band Visual camera	23° x 17° 2.5 mRad Thermal lens: 15 cm (6 in) Visible (visual) light lens: 46 cm (18 in) Manual 9 Hz refresh rate 160 X 120 focal plane array, uncooled microbolometer 20 mm F = 0.8 lens ≤ 0.1 °C at 30 °C (100 mK) 7.5 •m to 14 •m 640 x 480 resolution
Image presentation	Palettes Level and span Minimum span (in manual mode) Minimum span (in auto mode) IR-Fusion® information Picture-In-Picture (PIP) Full screen (PIP off)	Ironbow, blue-red, high contrast, amber, hot metal, grey Smooth auto-scaling and manual scaling of level and span 2.5 °C (4.5 °F) 5 °C (9 °F) Full infrared with MAX, MID, or MIN automatic blending; and picture-in-picture with MAX, MID, or MIN automatic blending (Visual and IR blending) Three levels of on-screen IR blending displayed in center 320 x 240 pixels Three levels of on-screen IR blending displayed in center 640 x 480 LCD
Voice annotation	Voice annotation	60 seconds maximum recording time per image
Image and data storage	Storage medium File formats Export file formats w/SmartView™ software	SD memory card (2 GB memory card will store at least 1200 fully radiometric (.is2) IR and linked visual images each with 60 seconds voice annotations or 3000 basic (.bmp) IR images) Non-radiometric (.bmp) or fully-radiometric (.is2) No analysis software required for non-radiometric (.bmp) files JPEG, BMP, GIF, PNG, TIFF, WMF, EXIF, and EMF

General specifications

Temperature	Operating: -10 °C to 50 °C (14 °F to 122 °F) Storage: -20 °C to +50 °C (-4 °F to 122 °F) without batteries
Relative humidity	10 % to 90 % non-condensing
Display	9.1 cm (3.6 in) diagonal landscape color VGA (640 x 480) LCD with backlight (selectable bright or auto)

Controls and adjustments	User selectable temperature scale (°C/°F) Language selection Time/Date set
Software	SmartView™ full analysis and reporting software included
Power	Battery: Internal rechargeable battery pack (included) Battery life: Three to four hours continuous use (assumes 50 % brightness of LCD) Battery charge time using ac adapter/charger and dc car charger: Two hours for full charge
AC operation/charging	AC adapter/charger (110 Vac to 220 Vac, 50 Hz to 60 Hz). Charges battery while imager is operating. Universal ac mains adapters included.
Power saving	Sleep mode activated after 5 minutes of inactivity, automatic power off after 20 minutes of inactivity
Safety standards	CE Directive: IEC/EN 61010-1 2nd Edition Pollution Degree 2
Electromagnetic compatibility	EMC directive: EN61326-1 C-Tick: IEC/EN 61326 US FCC: CFR 47, Part 15 Class A
Vibration	2 G, IEC 68-2-29
Shock	25 G, IEC 68-2-29 {2 m (6.5 ft) drop, 5 sides}
Dimensions (HxWxL)	0.27 m x 0.13 m x 0.15 m (10.5 in x 5 in x 6 in)
Weight	1.2 kg (2.65 lb)
IP rating	IP54
Warranty	Two-years
Calibration cycle	Two-years (assumes normal operation and normal aging)
Supported languages	English, Italian, German, Spanish, French, Russian, Portuguese, Swedish, Turkish, Czech, Polish, Finnish, Simplified Chinese, Traditional Chinese, Korean, and Japanese