

FLIR T250 Thermal Imager Specs

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The Global Leader in Infrared Cameras

FLIR T250 INFRARED CAMERA



FLIR's new T250 infrared camera expands the choices available to thermographers and maintenance professionals who need to avoid costly downtime of electrical systems and equipment.



- > High Quality 200 x 150 IR Resolution
- > Thermal sensitivity of 80 mK (NETD)
- > Integral 1280 x 1024 visible light camera
- > Video lamp for quality visible images
- > Interchangeable lens for greater versatility
- > Picture in Picture to show fusion images
- > Touch screen text, image marker, sketch, voice
- > 3.5 inch touch-screen LCD

Easy and Versatile Solution

FLIR's T250 infrared camera weighs less than two pounds, making it a versatile camera for finding hot spots in electrical systems, components, and machinery. The camera's light weight and comfortable form is attributed to a small advanced IR detector and innovative battery design.

Investment Protection

The T250 is a mid-level camera in the T-Series lineup and is upgradeable so your investment in technology, software, and training is protected. Simply add higher-model T-Series features as your needs change and grow.

Entry-level and experienced thermographers will benefit from the ease of use and productivity features of the T250 camera.

Touch Screen Technology

The T250 camera adds higher resolution and includes touch screen features, which let you save text, sketches, and markers to your thermal images, directly on your camera at your work site. The on-screen sketch, marker, and text touch features help you increase productivity and enhance your reports.

Find Trouble Fast

The T250 camera's 80 mK thermal sensitivity helps you pinpoint trouble fast.

The camera delivers 200 x 150 IR resolution (30,000 pixels). That's one-third more detail than competing brands with 160 x 120 resolution.

Advanced Optics

The T250 comes with a 25° lens for normal views. An optional 45° lens is available for wide-angle images. And a 15° telephoto lens is available for long-range work. The T-series lenses are interchangeable and easily attach to the camera body. Tilting only the optic, allows intuitive and productive use of the camera for extended periods of time. This is a benefit to organizations that regularly conduct detailed electrical surveys.

Produce Sharp Images

Auto and manual focus features of the T250 allow a wide range of users to take advantage of the camera. This ensures everyone can take sharp thermal images and produce accurate temperature analysis and results. The camera's 2x digital zoom capability helps you zoom in to get close detail in a range of applications.

1.3 Mega Pixel Visible Light Camera

The T250 includes an integral visible light camera to add visual information to reports. On-camera Picture in Picture (PIP) image fusion capability is provided as well so users can see a scalable infrared light image super-imposed in a visible light image.

A standard video-out port enables users to display images on a virtual reality Heads Up Device (HUD). This extends the use of the camera in tight spots and special applications.

T-Series cameras also connect to a standard off-the-shelf video display device for viewing of IR images by a large audience.

Information-Packed Radiometric Images

USB port connection enables convenient image downloading from the T250 to your PC. All the valuable information you collect in the field, such as temperature data, object parameters, and text/image information is saved with the IR image files you download to your PC. This simplifies data collection and allows for quick and efficient processing of information after your field work is done.

The T250 includes QuickReport analysis and reporting software. Optional Reporter software, a Microsoft® Word-based program - is available from FLIR for advanced analyses and report generation.

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This product is protected by patents, design patents, patents pending, or design patents pending.

FLIR T250 Technical Specifications

Imaging Performance	
Field of View (FOV) / Close Focus Limit	25° x 19° / 0.4 m (1.31 ft.)
Thermal sensitivity (NETD)	0.08°C @ +30° (+86°F) / 80mK
Detector Type	Focal Plane Array (FPA) microbolometer
IR resolution	200 x 150
Spectral range	7.5 to 13 µm
Digital zoom and pan/focus	1x - 2x continuous/auto & manual focus
I FOV (with 25° lens)	2.18 mRad
Image Presentation	
Image modes	Thermal, Visual, Thermal Fusion
FLIR Fusion	Picture in Picture (PIP) - scalable IR image in visible light image
Display	Built-in touch-screen LCD display, 3.5 in.
Image annotation	Voice annotation (60 seconds) Text from touch screen soft keys Sketch Image markers on IR/Visual
Video lamp	1000 cd
Visible light camera resolution	1280 x 1024 (1.3 megapixels)
Measurement	
Object temperature ranges	-20°C to +120°C (-4°F to +248°F), 0°C to 350°C (32°F to 662°F), Optional up to +1200°C (+2192°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement modes	5 Spotmeters, 5 Box areas, Isotherm, Auto hot/cold spot
Set-up controls	Mode selector, color palettes, configure info to be shown in image, local adaptation of units, language, date and time formats, and image gallery
Measurement corrections	Reflected ambient temperature and emissivity correction
Image Storage	
Digital storage & capacity	Removable SD Memory Card/1000+ JPEG images
Image storage mode & formats	IR/visible light, standard JPEG
Laser LocatIR™	
Classification/Type	Class 2/Semiconductor AlGaInP Diode Laser: 1mW/635 nm (red)
Power Source	
Battery type	Rechargeable Lithium-Ion battery
Battery operating time	4 hours+
Battery charging	2 bay charging system, 10-16 V input. Charging status indicated by LED's
AC operation	AC adapter, 90-260 VAC input. 12 V output to camera
Voltage	11-16 VDC
Power management	Automatic shut down and sleep mode after settable time
Environmental	
Operating temperature range	-15°C to +50°C (5°F to 122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
Water and dust resistant (encapsulation)	IP 54, IEC 360
Shock	25G, IEC 68-2-29
Vibration	2G, IEC 68-2-7
Physical Characteristics	
Weight	0.88 kg (1.94 lb.)
Size (L x W x H)	106 x 201 x 125 mm (4.2 x 7.9 x 4.9 in.), with lens pointing forward
Tripod mounting	1/4" - 20
Interfaces	
USB (cable included)	Image transfer to PC
Video output	NTSC Video
Software	
QuickReport™	Included
Reporter™ 8 (Microsoft® Word based)	Optional

Camera includes:

IR camera with F 1.3 25° lens, image frequency 9Hz
Integral visible light camera with lamp

Transport case

Camera Lens Cap

Battery

2-bay battery charger

Headset, 3.5 mm plug

Video Cable

USB cable Std A <-> Mini B, 2 m/6.6 ft.

SD Memory Card

Sun Shield

Stylus Pen

User documentation CD-ROM, 21 languages

Power supply

Getting Started guide

Interchangeable lenses/options

Optional Add-on optics, Telephoto lens, 15°

Optional Add-on optics, Wide angle lens, 45°

High temperature option (up to +1200 °C/+2192 °F)

12 volt auto adapter

Hip/Belt mounted camera holster

Neckstrap

USB-A for memory stick



From Left to right: USB mini for PC image download, 4 pole audio for voice annotation, NTSC video, USB-A for memory stick image transfer



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