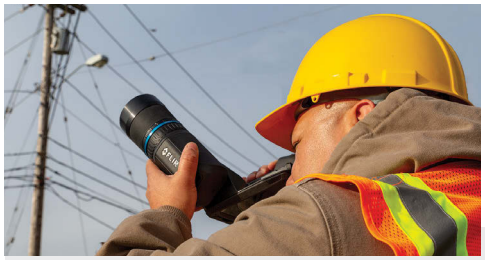
FLIR

HIGH-PERFORMANCE THERMAL IMAGING CAMERA

FLIR T840™

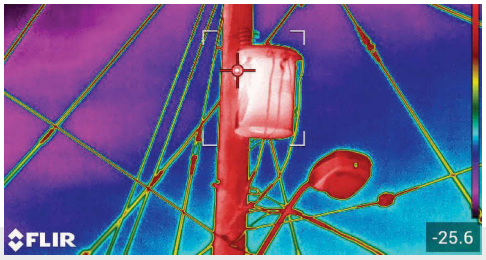
The FLIR T840 infrared (IR) camera is designed to help electric utility and other thermography professionals comfortably survey equipment both indoors or outdoors and seek out signs of failure all day long. Thanks to an integrated eyepiece viewfinder and a bright 4-inch color LCD display, the T840 makes it easy to conduct inspections outside in bright, challenging lighting conditions. The 180° rotating lens platform and thoughtful ergonomic design allow the T840 to help users diagnose hard-to-reach components in a variety of environments. With advanced on-camera measurement tools such as 1-Touch Level/Span and laser-assisted autofocus, you'll record accurate temperature measurements every time. Avoid costly power outages and plant shutdowns through regular predictive maintenance routines with this flexible and innovative IR camera.



AVOID COSTLY OUTAGES

Safely and comfortably assess equipment and prevent component failure from any vantage point, in any lighting condition

- Scan outdoor equipment from a safe distance using the integrated eyepiece viewfinder
- Reduce the strain of full-day inspections with the 180° rotating optical block
- Share lenses across your fleet of cameras thanks to AutoCal™ optics
- Ensure crisp thermal imagery and spot-on temperature readings every time with laser assisted autofocus



QUICKLY MAKE CRITICAL DECISIONS

Advanced imaging technology and superior sensitivity help you make the right call – fast

- Get industry-leading image clarity from FLIR Vision Processing™, MSX®, UltraMax®, and proprietary adaptive filtering
- Determine accessibility of components for repair at the touch of a button by activating on-screen laser distance measurement
- See problems and make decisions easily thanks to a scratch-resistant, 4-inch LCD display that's 33% brighter and 4x the resolution of comparable cameras

MAKE YOUR WORK EASIER

Get the most out of your work day with rapid reporting features that help you organize findings in the field

- Quickly access menus, folders, and settings using intuitive controls, including rapid response touchscreen
- Allow customers to observe critical findings in real time through Wi-Fi streaming to the FLIR Tools® app
- Prepare precise documentation with embedded GPS locations, as well as measurement data from METERLiNK®-enabled FLIR clamps and multimeters

SPECIFICATIONS

T840	
Eyepiece Viewfinder	Yes
IR Resolution	464 x 348 (161,472 pixels)
UltraMax® Resolution	645,888 effective pixels
Object Temperature Range	-20°C to 120°C (-4°F to 248°F) 0°C to 650°C (32°F to 1202°F) 300°C to 1500°C (572°F to 2732°F)
Digital Zoom	1-6x continuous

Common Features	
Detector Type and Pitch	Uncooled microbolometer, 17 µm
Thermal Sensitivity/NETD	<30 mK @ 30°C (42° lens)
Spectral Range	7.5 - 14.0 µm
Image Frequency	30 Hz
Lens Identification	Automatic
F-Number	f/1.1 (42° lens), f/1.3 (24° lens), f/1.5 (14° lens), f/1.35 (6° lens)
Focus	Continuous with laser distance meter (LDM), oneshot LDM, one-shot contrast, manual
Minimum Focus Distance	42° lens – 0.15 m 24° lens – 0.15 m; optional macro mode 14° lens – 1.0 m 6° lens – 5.0 m
Macro Mode	24° lens option / 71 µm effective spot size
Programmable Buttons	2

Image Presentation and Modes	
Display	4-inch, 640 x 480 pixel touchscreen LCD with auto-rotation
Digital Camera	5 MP, with built-in LED photo/video lamp
Color Palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Image Modes	Infrared, visual, MSX®, Picture-in-Picture
Picture-in-Picture	Resizable and movable
UltraMax®	Quadruples pixel count; activated in menu and processed in FLIR Tools

Measurement and Analysis	
Accuracy	±2°C (±3.6°F) or ±2% of reading
Spotmeter and Area	3 each in live mode
Measurement Presets	No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2
Laser Pointer	Yes
Laser Distance Meter	Yes; dedicated button

Annotations	
Voice	60 sec. recording added to still images or video via built-in mic (has speaker) or via Bluetooth
Text	Predefined list or touchscreen keyboard
Image Sketch	From touchscreen, on infrared image only
Distance, Area Measurement	Yes; calculates area inside measurement box in m^2 or ft^2
GPS	Automatic image tagging
METERLiNK®	Yes

Image Storage	
Storage Media	Removable SD card
Image File Format	Standard JPEG with measurement data included
Time Lapse (Infrared)	10 sec to 24 hrs

Video Recording and Streaming	
Radiometric IR Video Recording	Real-time radiometric recording (.csq)
Non-Radiometric IR or Visual Video	H.264 to memory card
Radiometric IR Video Streaming	Yes, over UVC or Wi-Fi
Non-Radiometric IR Video Streaming	H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi
Communication Interfaces	USB 2.0, Bluetooth, Wi-Fi
Video Out	DisplayPort over USB Type-C

Additional Data	
Battery Type	Li-ion battery, charged in camera or on separate charger
Battery Operating Time	Approximately 4 hours at 25°C (77°F) ambient temperature and typical use
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)
Shock/Vibration/Encapsulation; Safety	25 g / IEC 60068-2-27, 2 g / IEC 60068-2-6 / IP54; EN/UL/CSA/PSE 60950-1

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