



## 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.

[www.flir.com/T840](http://www.flir.com/T840)



### 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		Measurement and Analysis	
Eye-piece Viewfinder	Yes	Accuracy	±2°C (±3.6°F) or ±2% of reading
IR Resolution	464 x 348 (161,472 pixels)	Spotmeter and Area	3 each in live mode
UltraMax® Resolution	645,888 effective pixels	Measurement Presets	No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2
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)	Laser Pointer	Yes
Digital Zoom	1-6x continuous	Laser Distance Meter	Yes; dedicated button
Common Features		Annotations	
Detector Type and Pitch	Uncooled microbolometer, 17 µm	Voice	60 sec. recording added to still images or video via built-in mic (has speaker) or via Bluetooth
Thermal Sensitivity/NETD	<30 mK @ 30°C (42° lens)	Text	Predefined list or touchscreen keyboard
Spectral Range	7.5 - 14.0 µm	Image Sketch	From touchscreen, on infrared image only
Image Frequency	30 Hz	Distance, Area Measurement	Yes; calculates area inside measurement box in m² or ft²
Lens Identification	Automatic	GPS	Automatic image tagging
F-Number	f/1.1 (42° lens), f/1.3 (24° lens), f/1.5 (14° lens), f/1.35 (6° lens)	METERLiNK®	Yes
Focus	Continuous with laser distance meter (LDM), oneshot LDM, one-shot contrast, manual	Image Storage	
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	Storage Media	Removable SD card
Macro Mode	24° lens option / 71 µm effective spot size	Image File Format	Standard JPEG with measurement data included
Programmable Buttons	2	Time Lapse (Infrared)	10 sec to 24 hrs
Image Presentation and Modes		Video Recording and Streaming	
Display	4-inch, 640 x 480 pixel touchscreen LCD with auto-rotation	Radiometric IR Video Recording	Real-time radiometric recording (.csq)
Digital Camera	5 MP, with built-in LED photo/video lamp	Non-Radiometric IR or Visual Video	H.264 to memory card
Color Palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC	Radiometric IR Video Streaming	Yes, over UVC or Wi-Fi
Image Modes	Infrared, visual, MSX®, Picture-in-Picture	Non-Radiometric IR Video Streaming	H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi
Picture-in-Picture	Resizable and movable	Communication Interfaces	USB 2.0, Bluetooth, Wi-Fi
UltraMax®	Quadruples pixel count; activated in menu and processed in FLIR Tools	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

Specifications are subject to change without notice.



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