



## 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.

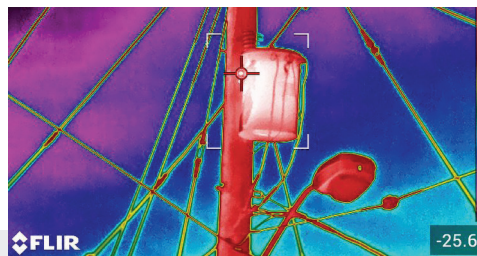
[www.flir.com/T840](http://www.flir.com/T840)



### 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

|                          |  |
|--------------------------|--|
| Eyeiece Viewfinder       | Yes  |
| IR Resolution            | 464 x 348<br>(161,472 pixels)  |
| UltraMax® Resolution     | 645,888 effective pixels   |
| Object Temperature Range | -20°C to 120°C (-4°F to 248°F)<br>0°C to 650°C (32°F to 1202°F)<br>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<br>24° lens – 0.15 m; optional macro mode<br>14° lens – 1.0 m<br>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 m² or ft²   |
| 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<br>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 |

Specifications are subject to change without notice. For the most up-to-date specs, go to [www.flir.com](http://www.flir.com)

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NASDAQ: FLIR

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