



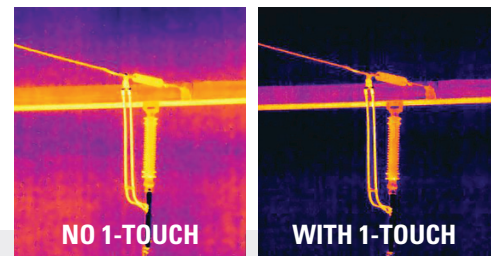
## THERMAL IMAGING CAMERA WITH VIEWFINDER

# FLIR T800-Series™



The FLIR T800-Series is the new standard in predictive/preventant maintenance tools for utility, electro-mechanical, manufacturing, and building diagnostics professionals. The T840 and T860 feature on-board Inspection Routing that speeds data collection and reporting by helping users plan out surveys and then organizing images and data by location. An integrated eyepiece viewfinder, bright 4-inch color LCD, and thoughtful ergonomic design allow inspectors to comfortably survey equipment for signs of failure—even in challenging lighting conditions. Advanced features such as 1-Touch Level/Span contrast enhancement and tack-sharp laser-assisted autofocus ensure the camera takes accurate temperature measurements every time. Maintain consistent uptime through regular maintenance routines with this flexible and innovative IR camera.

[www.flir.com/T800-Series](http://www.flir.com/T800-Series)



### IMPROVE WORKFLOW EFFICIENCIES

On-board routing and new FLIR software aid in the collection and management of critical data

- Develop and upload routes to the camera for streamlined inspections of critical assets within a plant or facility
- Acquire temperature data, thermal, and visual imagery in a logical sequence for faster preventative/predictive maintenance procedures
- Automate data management and reporting through easy transfer of organized files to FLIR Thermal Studio Pro

### AVOID COSTLY OUTAGES AND COMPONENT FAILURES

Assess the thermal health of equipment and systems from any angle, in any lighting conditions

- Adapt to any work environment with a vibrant 4" color LCD display and an integrated eye-piece viewfinder
- Image targets overhead or down low without strain thanks to the 180° rotating optical block and ergonomic design
- Accurately measure small targets over long distance or in large scenes with the optional 6° telephoto lens

### MAKE CRITICAL DECISIONS QUICKLY

Save time and share data faster to increase in-field efficiency

- Ensure precision measurement with laser-assisted autofocus, 1-Touch Level/Span, and exceptional temperature accuracy
- Avoid diagnostic errors with industry-leading image clarity from FLIR Vision Processing™, combining MSX®, UltraMax®, and proprietary adaptive filtering algorithms
- Optimize workflows with reporting features such as built-in voice annotation, customizable work folders, and Wi-Fi sync to the FLIR Tools® App

## SPECIFICATIONS

| Imaging and optical data     | T840   | T860   |
|------------------------------|--|--|
| IR resolution                | 464 × 348 (161,472 pixels, 645,888 with UltraMax®)   | 640 × 480 (307,200 pixels, 1,228,800 with UltraMax®)   |
| Detector pitch               | 17 µm  | 12 µm  |
| 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) | -20°C to 120°C (-4°F to 248°F); 0°C to 650°C (32°F to 1202°F); 300°C to 2000°C (572°F to 3632°F) |
| Digital zoom                 | 1-6× continuous  | 1-8× continuous  |
| Macro Mode (24° lens option) | 71 µm min. focus distance  | 50 µm min. focus distance  |
| Detector data                |  |  |
| Detector type and pitch      | Uncooled microbolometer  |  |
| 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), One-shot 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   |  |
| Programmable buttons         | 2  |  |
| Image presentation           |  |  |
| Display                      | 4-inch, 640 × 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®                    | 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                   |  |

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

| Measurement and analysis - Cont.  |   |
|---|---|
| Laser pointer   | Yes   |
| Laser distance meter  | Yes; dedicated button, displays distance on-screen  |
| On-screen area measurement  | Yes; calculates area inside measurement box in m² or ft²  |
| Annotations   |   |
| Inspection Routing  | File created in FLIR Thermal Studio Pro using FLIR Route Creator plug-in                          |
| 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  | Infrared images, from touchscreen   |
| GPS   | Automatic image tagging   |
| METERLiNK®  | Yes; connects to METERLiNK-enabled FLIR meters  |
| 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  | Compressed, over UVC  |
| Non-radiometric IR video streaming  | H.264, MPEG-4 over Wi-Fi; MJPEG over UVC or Wi-Fi   |
| Communication interfaces  | USB 2.0, Bluetooth, Wi-Fi, DisplayPort  |
| Video out   | DisplayPort   |
| Additional data   |   |
| Languages   | 21  |
| Battery type  | Li-ion battery, charged in camera or on separate charger  |
| Battery operation   | Approximately 4 hours at 25°C (77°F)  |
| Operating temperature range   | -15°C to 50°C (5°F to 122°F)  |
| Shock/Vibration/Encapsulation   | 25 g (IEC 60068-2-27) / 2 g (IEC 60068-2-6) / IP54  |
| Safety  | EN/UL/CSA/PSE 60950-1   |
| Weight (including battery)  | 1.4 kg (3.1 lbs)  |
| Size (l × w × h, lens vertical)   | 150.5 × 201.3 × 84.1 mm (5.9 × 7.9 × 3.3 in)  |
| Package contents  |   |
| Infrared camera, lens, front and rear lens caps, cleaning cloth, small eyecup, rechargeable battery (2 ea.), charger power supply, 15 W/3 A power supply, straps (lens cap, neck), cables (USB 2.0 A to USB Type-C, USB Type-C to USB Type-C, USB Type-C to HDMI and PD adapter), 8 GB SD card, printed documentation |   |

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