The FLIR T800-Series is the new standard in predictive/preventative maintenance tools for utility, electro-mechanical, manufacturing, and building diagnostics professionals. The T840 and T860 offer optional 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

**THERMAL IMAGING CAMERA WITH VIEWFINDER**

**FLIR 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

**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

*Optional feature
## Specifications

<table>
<thead>
<tr>
<th>Imaging and optical data</th>
<th>T840</th>
<th>T860</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR resolution</td>
<td>464 × 348 (161,472 pixels, 645,880 with UltraMax®)</td>
<td>640 × 480 (307,200 pixels, 1,228,800 with UltraMax®)</td>
</tr>
<tr>
<td>Detector pitch</td>
<td>17 μm</td>
<td>12 μm</td>
</tr>
<tr>
<td>Object temperature range</td>
<td>-20°C to 120°C (4°F to 248°F), 0°C to 650°C (32°F to 122°F), 350°C to 150°C (572°F to 2732°F)</td>
<td>-20°C to 120°C (4°F to 248°F), 0°C to 650°C (32°F to 122°F), 350°C to 2000°C (572°F to 3632°F)</td>
</tr>
<tr>
<td>Digital zoom</td>
<td>1-6× continuous</td>
<td>1-8× continuous</td>
</tr>
<tr>
<td>Macro Mode (24° lens option)</td>
<td>71 μm min. focus distance</td>
<td>50 μm min. focus distance</td>
</tr>
</tbody>
</table>

### Detector date

- **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
- **Macro Mode**: 71 μm min. focus distance
- **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

### 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