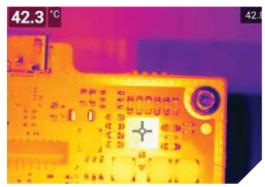


Ease of operation and ergonomic design make the T500 series an essential tool for product development and research



71 µm/pixel spot size performance, for accurate readings on small targets

FURT500-SERIES™

rofessional Thermal Imaging Camera

e FLIR T 30 and T540 are designed to support engineers and researchers with solution, speed, and flexibility. These uncooled infrared cameras offer precision easurement and crisp, vibrant imagery enhanced through UltraMax® technology d the exacting detail of Macro Mode. And thanks to a new ergonomic design and itive, rapid-response interface, T500-Series cameras can increase efficiency and help reduce test times.

COMPREHENSIVE PRECISION ANALYSIS

is fre temperature with the sensitivity and detail needed st identification of faults and thermal gradients

- Sasitive enough to detect temperature differences smaller than 0.03°C
- Built in Macro Mode measures components down to 71 μm/pixel* spot size, or 50 µm/pixel* with a macro lens (available in 2018)
- Quantify heat generation and thermal dissipation up to 1500°C

REDUCE TEST TIMES

Set up, start testing, then analyze thermal data quickly thanks to streamlined user features and analysis tools

- Start measuring guickly and easily thanks to intuitive GUI and menus
- Radiometric data streaming over USB or Wi-Fi lets you skip straight from testing to analysis
- Analyze and share data through FLIR Tools+, or gain more in-depth analysis with FLIR ResearchIR software

OUTSTANDING IMAGE CLARITY

Build client trust through sharp, brilliant images that are easy for non-expert clients to interpret

- Produce stand-out 464 x 348 pixel IR imagery, or enhance to 645,888 pixels thorugh UltraMax® processing*
- Help non-expert clients interpret images by adding perspective with FLIR's proprietary MSX® image enhancements
- Ensure tack-sharp focus for crisp imagery by using the precise laser-assisted autofocus

*Model T540 only



Specifications

| Features by Camera | T530 | T540 | |
|------------------------------|---|------------------------------------|--|
| IR Resolution | 320 x 240 (76,800 pixels) | 464 x 348 (161,472 pixels) | |
| UltraMax® Resolution | 307,200 effective pixels | 645,888 effective pixels | |
| Object Temperature Range | -20°C to 120°C (-4°F to 248°F) | -20°C to 120°C (-4°F to 248°F) | |
| | 0°C to 650°C (32°F to 1202°F) | 0°C to 650°C (32°F to 1202°F) | |
| | Optional Calibration: 300°C to 1200°C (572°F to 2192°F) | 300°C to 1500°C (572°F to 2732°F) | |
| Digital Zoom | 1-4x continuous | 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 | | |
| F-Number | f/1.1 (42° lens), f/1.3 (24° lens), f/1.5 (14° lens) | | |
| Minimum Focus Distance | 42° lens – 0.15 m | | |
| | 24° lens – 0.15 m 14° lens – 1.0 m | | |
| | 24° lens option / 103 µm | – 1.0 m 24° lens option / 71 µm | |
| Macro Mode | effective spot size | effective spot size | |
| Lens Identification | Auton | natic | |
| Focus | Continuous with laser distance meter (LDM), one-shot LDM, one-shot contrast, manual | | |
| Image Frequency | 30 Hz | | |
| Programmable Buttons | 2 | | |
| Image Presentat | ion and Modes | | |
| Display | 4", 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, optional Macro Mode | | |
| Picture-in-Picture | Resizable and movable | | |
| UltraMax® | Image processing that quadruples pixel count | | |
| Measurement and Analysis | | | |
| Accuracy | ±2°C (±3.6°F) or ±2% of reading for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F) | | |
| Spotmeter and Area | 3 ea. 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 | | |
| GPS | Automatic GPS 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 | H.264 or MPEG-4 over Wi-Fi | |
| Video Streaming | 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 | Approx. 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, IP 54; EN/UL/CSA/PSE 60950-1 | |
| Weight/Dimensions | 1.3 kg (2.9 lbs), 140 x 201 x 84 mm (5.5 x 7.9 x 3.3 in) | |
| Box Contents | | |
| Packaging | Infrared camera with lens, 2 batteries, battery charger, neck strap, hard transport case, lanyards, front lens cap, power supply for battery charger, printed documentation, 8 GB SD card, cables (USB 2.0 A to USB Type-C, USB Type-C to HDMI, USB Type-C to USB Type-C) | |

www.flir.com



