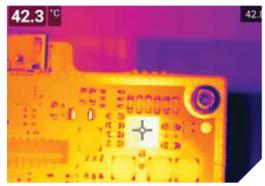


Ease of operation and ergonomic design make the T500 series an essential tool for product development and research



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) 0°C to 650°C (32°F to 1202°F) 0ptional Calibration: 300°C to 1200°C (572°F to 2192°F)	-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)	
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		
Macro Mode	24º lens option / 103 µm effective spot size	24° lens option / 71 μm 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 Presentation 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 via Blu		
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)	

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