

A NEW TWIST ON THERMAL IMAGING



FLIR **T500-Series**™
Professional Thermal Imaging Camera





FLIR T530/T540 Flexibility, Precision, and Advanced Connectivity

With the FLIR T530/T540 Professional Thermal Imaging Cameras, you can:

- Assess equipment and prevent failures safely and comfortably from any vantage point
- Make critical decisions fast based on higher resolution, laser-focused imagery and spot-on temperature measurements
- Analyze images, quickly build reports, and keep customers informed with rapid Wi-Fi uploads, customized work folders, and streamlined reporting features that make your job easier

Intelligent, Interchangeable AutoCal™ Optics

- 24° standard
- 42° wide angle
- 14° telephoto



Unmatched Autofocus

Whether you choose one-shot or continuous autofocus, the T500-Series' precise laser-assisted focus ensures you record tack-sharp images, for the most accurate temperature readings.



Up to 464 x 348 True Native Resolution

Put more pixels on the target for more accurate thermal readings - or increase to 645,888 pixels through FLIR UltraMax® image enhancement technology.



Two programmable buttons

Speaker plays back voice annotation

Interchangeable AutoCal™
24°, 42°, and 14° lenses

Separate Autofocus and Image Recording buttons

Vibrant, 4" optically-bonded PCAP touchscreen

Laser provides distance measurement and aids in precise autofocus

180° rotating optical block and sleek new design

Scratch-resistant Dragontrail™ glass

Li-ion battery for extended use times

Bright LED work lights improve image clarity in dim areas

Mic for voice annotation

5 MP digital camera now closer to thermal detector for superior MSX® enhancements

EXCELLENCE IN PERFORMANCE AND DESIGN

FLIR T530/T540 cameras are packed with performance features that make your job easier: a sleek, ergonomic design; a bright, bold screen; razor-sharp interchangeable lenses; and a rapid-response user interface that's as intuitive as it is beautiful.

FLIR T500-Series™
T530/T540

Specifications

	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) Optional 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	
Image Frequency	30 Hz	
Lens Identification	Automatic	
F-Number	f/1.1 (42° lens), f/1.3 (24° lens), f/1.5 (14° lens)	
Focus	Continuous with laser distance meter (LDM), one-shot LDM, one-shot contrast, manual	
Minimum Focus Distance	42° lens – 0.15 m 24° lens – 0.15 m; optional macro mode 14° lens – 1.0 m	
Macro Mode	24° lens option / 103 µm effective spotsize	24° lens option / 71 µm effective spotsize
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	
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 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	
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	

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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 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 w/o Lens	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, hard transport case, lanyards, front lens cap, power supplies, printed documentation, SD card (8 GB), 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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