

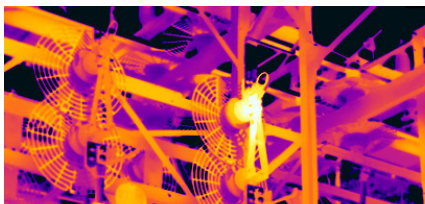
FLIR T500-SERIES™

PROFESSIONAL THERMAL IMAGING CAMERAS

Diagnose potential faults in industrial, electrical, and mechanical systems with a T500-Series camera. These portable, ergonomic thermal cameras offer advanced features like 1-Touch Level/Span and continuous laser-assisted autofocus, making them the perfect non-contact diagnostic tools for condition monitoring. Streamline electrical/mechanical surveys, troubleshooting, and repairs with Inspection Route* mode. Run pre-planned routes created in FLIR Thermal Studio Pro† to record temperature data and imagery in a logical sequence for more efficient troubleshooting and repair scheduling, then upload images directly to the FLIR Ignite‡ cloud for secure storage, sharing, and importing into Thermal Studio.

KEY FEATURES:

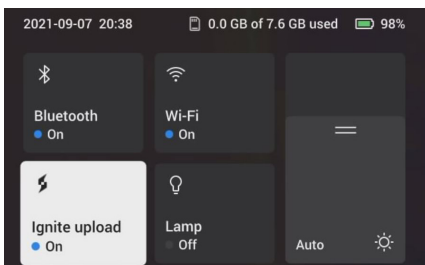
ERGONOMIC THERMAL IMAGING
180° ROTATING LENS BLOCK
UP TO 640 × 480 IR RESOLUTION
MSX® AND ULTRAMAX®
1-TOUCH LEVEL & SPAN
THERMAL STUDIO PRO REPORTING
FLIR ROUTE CREATOR
FLIR IGNITE™ CLOUD



Advanced imaging technology and high sensitivity help professionals make the right call – fast



Assess equipment and prevent component failure safely from any vantage point



Upload, organize, and share images securely with FLIR Ignite

MAKE CRITICAL DECISIONS QUICKLY

Advanced imaging technology and high sensitivity help professionals make the right call – fast

- Get industry-leading image clarity from FLIR Vision Processing™ through the power of patented FLIR MSX, UltraMax, and proprietary adaptive filtering
- Determine accessibility of components for repair at the touch of a button by activating on-screen laser distance measurement
- Scan large areas from a safe distance with up to 640 × 480 resolution, delivering 307,200 radiometric non-contact temperature measurement points

MAXIMIZE EFFICIENCY, SAFETY, & PERFORMANCE

Assess equipment and prevent component failure safely from any vantage point

- Target overhead components with less strain thanks to the 180° rotating optical block
- Share lenses (wide angle to telephoto) across a fleet of cameras with AutoCal™ optics
- Ensure precision measurement with laser-assisted autofocus and 1-Touch Level/Span
- Make decisions easily with an LCD display that's 33% brighter and 4x the resolution of comparable cameras

TOOLS TO MAKE THE JOB EASIER

Organize findings in the field with built-in navigation and reporting features

- Quickly access menus, folders, and settings using intuitive controls, including rapid response touchscreen and two programmable buttons
- Streamline inspections by downloading survey plans from FLIR Thermal Studio Pro to the cameras*†
- Upload and organize images to FLIR Ignite cloud for secure storage, sharing, and importing to reports‡
- Prepare precise documentation with embedded GPS locations as well as measurement data from METERLiNK®-enabled FLIR clamp meters and multimeters

* FLIR Inspection Route camera firmware required

† FLIR Route Creator Plugin required

‡ FLIR Ignite firmware update required for models purchased prior to 2022

For more information, visit:
www.flir.com/T-Series

www.teledyneflir.com

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SPECIFICATIONS

General		T530	T540	T560
IR resolution		320 × 240 (76,800 pixels)	464 × 348 (161,472 pixels)	640 × 480 (307,200 pixels)
UltraMax® resolution		307,200 effective pixels	645,888 effective pixels	1.2 MP 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 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)*
Minimum focus distance		42° lens: 0.3 m (.98 ft) 24° lens: 0.5 m (1.64 ft); optional macro mode 14° lens: 1.0 m (3.28 ft)		42° lens: 0.15 m (0.49 ft) 24° lens: 0.15 m (0.49 ft); optional macro mode 14° lens: 1.0 m (3.28 ft)
Detector type and pitch		Uncooled microbolometer, 17 µm		Uncooled microbolometer, 12 µm
Digital zoom		1-4x continuous	1-6x continuous	1-8x continuous
Common Features				
Thermal sensitivity/NETD		<30 mK @ 30°C/86°F (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		
Programmable buttons		2		
Image Presentation and Modes				
Display		4", 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		Super-resolution process quadruples pixel count; activated in menu and processed in reporting software		
Measurement and Analysis				
Accuracy, full range		±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	
Inspection routing	Camera firmware option; 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	From touchscreen, on infrared image only
Distance, area measurement	Yes; calculates area inside measurement box in m2 or ft2
METERLiNK	Yes
Compass, GPS	Yes; automatic GPS image tagging
Communications & Connections	
Cloud services (via Wi-Fi)	FLIR Ignite for direct, secure image uploading, organizing, and sharing
METERLiNK (via Bluetooth)	Wireless connection to FLIR meters with METERLiNK
Image Storage	
Storage	Removable SD card; onboard FLIR Ignite cloud connectivity with Wi-Fi
Image file format	Standard JPEG with measurement data included
Timelapse (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 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)
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 without lens	1.3 kg (2.9 lbs), 140 × 201 × 84 mm (5.5 × 7.9 × 3.3 in)

Specifications are subject to change without notice. For the most up-to-date specifications, visit www.teledyneflir.com.

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USA

27700 SW Parkway Ave.
Wilsonville, OR 97070
Office: +1 877.773.3547

SWEDEN

Antennvägen 6
187 66 Täby
Tel. : +46 (0)8 753 25 00

For more information, visit:
www.flir.com/T-Series

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