

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:

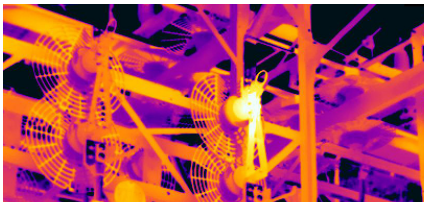
ERGONOMIC THERMAL IMAGING
180° ROTATING LENS BLOCK
UP TO 640 × 480 IR RESOLUTION
MSX® AND ULTRAMAX®
1-TOUCH LEVEL & SPAN
THERMAL STUDIO PRO REPORTING
FLIR ROUTE CREATOR
FLIR IGNITE™ CLOUD



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



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



Assess equipment and prevent component failure safely from any vantage point

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

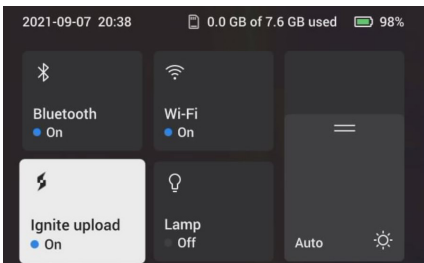
Organize findings in the field with built-in navigation and reporting features

- 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



Upload, organize, and share images securely with FLIR Ignite

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 1500°C (572°F to 2732°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 (0.98 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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