

FLIR T500-SERIES™

Professional Thermal Imaging Cameras



Safely diagnose potential faults with a portable, ergonomic FLIR T500-Series thermal camera. Paired with a FLIR FlexView™ dual field-of-view lens, T500-Series cameras give you the convenience to instantly switch from wide-area to telephoto scanning without changing the lens. Streamline industrial, electrical, and mechanical surveys and repairs with Inspection Route mode, which runs pre-planned routes created in FLIR Thermal Studio Pro†. 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.

MAKE CRITICAL DECISIONS QUICKLY

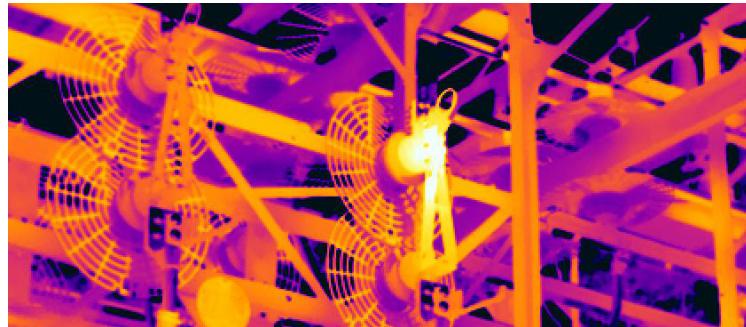
Advanced imaging technology and high sensitivity help professionals make the right call – fast

- Change from wide area scanning to telephoto instantly with the FlexView dual field-of-view lens
- Get industry-leading image clarity from FLIR Vision Processing™ through the power of patented FLIR MSX®, UltraMax®, and proprietary adaptive filtering
- Use the laser distance measurement tool to effortlessly transfer precise object distance data into your reports
- Match the visual camera's field of view with up to 640 x 480 thermal resolution, delivering 307,200 radiometric non-contact temperature measurement points, or up to 1.2 MP using UltraMax resolution enhancement

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



www.flir.com/T-Series

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 routes 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 Route Creator Plugin required

‡ FLIR Ignite firmware update required for models purchased prior to 2022, download at flir.custhelp.com

SPECIFICATIONS

General	T530	T540	T560	Annotations
IR resolution	320 x 240 (76,800 pixels)	464 x 348 (161,472 pixels)	640 x 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)	
Thermal lens options	6°, 14°, 24°, 42°, 80°, FlexView® Dual FOV (24°/14°), FlexView® Dual FOV (42°/24°) lenses			
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/13.5 (6° lens), f/1.5 (14° lens), f/1.3 (24° lens), f/1.1 (42° lens), /1.3 (80° lens), f/1.3/1.3 (24°/14° dual field-of-view lens), f/1.2/1.2 (42°/24° dual field-of-view 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 x 480 pixel touchscreen LCD with auto-rotation			
Digital camera	5 MP, with built-in LED photo/video lamp			
Color palettes	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava - each with Histogram and Temperature Linear display			
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			
Lens protection	Yes, lens cover included. Industrial protective lens window optional accessory (PN: T300493ACC)			
				Specifications are subject to change without notice. For the most up-to-date specifications, visit www.flir.com/T-Series .
 PREMIUM CHANNEL PARTNER CORPORATE OFFICE Hi-Tech Systems & Services Ltd. White House, 119 Park Street Kolkata 700 016, India  +91 33 2229 0045  flir@hitech.in  hitech.in				BRANCHES Bhubaneswar New Delhi Chennai Raipur Hyderabad Singrauli Jamshedpur Vadodara Mumbai
				This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited. For assistance with confirming the Jurisdiction & Classification of Teledyne FLIR, LLC products, please contact exportquestions@flir.com . ©2024 Teledyne FLIR, LLC. All rights reserved. Revised 09/23/24 RH24-0539-INS