



PROFESSIONAL THERMAL CAMERA

FLIR T540

MODEL: FLIR T540, 24°

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Troubleshoot hotspots, find hidden faults, and confirm repairs quickly with the ergonomic, high-resolution FLIR T540. This 161,472 (464 × 348) pixel thermal imaging camera has a bright 4" LCD and a 180° rotating lens platform, so you can easily and comfortably diagnose electrical or mechanical issues, even in hard-to-reach areas. Advanced on-camera measurement tools such as 1-Touch Level/Span, plus laser-assisted autofocus, ensure you'll record accurate temperature measurements every time.

PRODUCT VARIATIONS:

FLIR T540, 24°



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Resolution, Comfort, And Outstanding Performance

The T540 uses the power of FLIR Vision Processing™ to deliver detailed, smooth pictures with very little image noise. FLIR Vision Processing combines IR resolution, MSX®, and UltraMax® image enhancement with FLIR's proprietary adaptive filtering algorithms to produce brilliant thermal images with up to 3.1 million pixels. Plus, the T540 is sensitive enough to detect temperature differences down to <30 mK, for clear, low-noise results.



SPECIFICATIONS

OVERVIEW

Color alarm (isotherm)	<ul style="list-style-type: none"> •Above •Below •Interval •Condensation (moisture/humidity/dewpoint) •Insulation
Cover Glass Material	Dragontrail®
Difference Temperature	Yes
Display Technology	IPS
Focal Length	17 mm (0.67 in.), 24°
Housing material	PCABS with TPE, magnesium
IR Resolution	464 × 348 pixels
Languages	21
Laser Alignment	Position is automatically displayed on the infrared image
Laser Pointer	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance
Packaging Size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)

Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference
Size (L x W x H)	Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Spectral Range	7.5 - 14 μm
Tripod Mounting	UNC 1/4"-20
Warranty	http://www.flir.com/warranty/

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Predefined list or touchscreen keyboard



10 sec to 24 hrs
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Voice

60 sec. recording added to still images or video via built-in mic (has speaker) or via Bluetooth

Weight & Dimensions
(without lens)

1.3 kg (2.9 lbs), 140 × 201 × 84 mm (5.5 × 7.9 × 3.3 in)

CONNECTIONS & COMMUNICATIONS

Audio Microphone and speaker for voice annotation of images

Communication Interfaces USB 2.0, Bluetooth, Wi-Fi

METERLiNK - Bluetooth Communication with headset and external sensors

Remote Control •Using FLIR Tools (using USB cable) •FLIR Tools Mobile (over Wi-Fi)

Storage Media Removable SD card

USB USB Type-C: data transfer/video/power

USB - Standard USB 2.0 High Speed

Video Out DisplayPort over USB Type-C

METERLiNK Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

ENVIRONMENTAL

EMC •ETSI EN 301 489-1 (radio) •ETSI EN 301 489-17 •EN 61000-6-2 (immunity) •EN 61000-6-3 (emission) •FCC 47 CFR Part 15 Class B

Emissivity Correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Humidity (Operating and Storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
Operating Temperature Range	–15°C to 50°C (5°F to 122°F)
Radio Spectrum	•ETSI EN 300 228 •FCC Part 15.249 •RSS-247 Issue 2
Safety	EN/UL/CSA/PSE 60950-1
Storage Temperature Range	–40°C to 70°C (–40°F to 158°F)
Shock & Vibration & Encapsulation	25 g / IEC 60068-2-27, 2 g / IEC 60068-2-6 / IP 54; EN/UL/CSA/PSE 60950-1

IMAGING & OPTICAL

Aspect ratio	4:3
Auto Rotation	Yes
Camera software update	Use PC software FLIR Tools
Color	Black
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Detector Type and Pitch	Uncooled microbolometer, 17 µm
Digital Camera	5 MP, with built-in LED photo/video lamp
Digital Camera Focus	Fixed
Digital Camera FOV	53° × 41°
Digital Zoom	1–6× continuous
f-number	1.3, 24°
Field of View	24° × 18°
Field of view match	Yes

Focus	Continuous with laser distance meter (LDM), one-shot LDM, one-shot contrast, manual
Frame Rate [Full Window]	30Hz
Gallery	Yes
Global Positioning System [GPS]	Location data automatically added to every still image and first frame in video from built-in GPS
Image Adjustment	•Automatic •Automatic maximum •Automatic minimum •Manual
Image Frequency	30 Hz
Image Sketch	From touchscreen, on infrared image only
Lens	24°
Lens Identification	Automatic
Minimum Focus Distance	0.15 m (0.49 ft.), 24°, Macro mode 71 μm as option to 24°
Minimum Focus Distance with MSX	0.5 m (1.64 ft.), 24°
Non-Radiometric IR or Visual Video	H.264 to memory card
Non-radiometric IR video streaming	H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi
Picture-in-Picture	Resizable and movable
Radiometric IR video recording	Real-time radiometric recording (.csq)
Radiometric IR video streaming	Over UVC
Resolution	464 × 348 pixels (VGA)
Spatial resolution (IFOV)	0.90 mrad/pixel, 24°
Viewfinder	No
Visual Video Recording	H.264 to memory card

UltraMax	Quadruples pixel count; activated in menu and processed in FLIR Tools
Video Lamp	Built-in LED light
Viewing Angle	80°
Visual Image	Yes
Visual Video Streaming	Yes

MEASUREMENT & ANALYSIS

Accuracy	$\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or $\pm 2\%$ of reading
Area measurement information	Yes
Laser Distance Meter	Yes; dedicated button
Measurement Corrections	Yes
Measurement Function Alarm	Audible/visual alarms (above/below) on any selected measurement function
Measurement Presets	<ul style="list-style-type: none"> •No measurements •Center spot •Hot spot •Cold spot •User preset 1 •User preset 2
NETD	<40mK
Object Temperature Range	-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) There are no optional ranges
Reference Temperature	Yes
Thermal Sensitivity/NETD	<40 mK, 24° @ +30°C (+86°F)
Spotmeter and Area	3 ea. in live mode
Automatic hot & cold detection	Automatic maximum/minimum markers within area

METER DATA

Display	4", 640 x 480 pixel touchscreen LCD with auto-rotation
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POWER

Battery operating time	Approx. 4 hours at 25°C (77°F) ambient temperature and typical use
Battery size (L x W x H)	59 x 66 x 94 mm (2.3 x 2.6 x 3.7 in.)
Battery type	Li-ion battery, charged in camera or on separate charger
Battery voltage	3.6 V
Battery weight	195 g (6.89 oz.)
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging Temperature	0°C to +45°C (+32°F to +113°F)
Charging Time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
External Power Operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power Management	Automatic shut-down and sleep mode

SHIPPING INFORMATION

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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STORAGE MEDIA

Image File Format	Standard JPEG with measurement data included
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THERMAL IMAGING

Detector Resolution	464 x 348
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