

FLIR T800-Series

HIGH-PERFORMANCE HANDHELD INFRARED CAMERAS

FLIR T800-Series thermal imaging cameras are powerful, ergonomic non-contact inspection tools. The 180° tilting optic design makes it comfortable, safe, and easy to assess the condition of critical electrical and mechanical equipment all day long. With advanced features including unmatched temperature measurements down to -40°C, accuracy as good as $\pm 1^\circ\text{C} / \pm 1$ percent, 1-Touch Level/Span contrast enhancement, and laser-assisted autofocus, you'll get highly accurate temperature measurements every time. Pair the T865 with a 6° FOV IR lens to perform inspections on small targets from long distances. With the on-board Inspection Route system, you'll be able to record temperature data and imagery in a logical sequence for faster troubleshooting and repair. Adding a FLIR T800-Series camera to a condition monitoring/predictive maintenance program can help reduce maintenance costs, improve system efficiency and reliability, and prevent downtime.

KEY FEATURES:

ERGONOMIC THERMAL IMAGING

180° ROTATING LENS BLOCK

640 × 480 IR RESOLUTION

MSX® AND ULTRAMAX®

1-TOUCH LEVEL & SPAN

FLIR THERMAL STUDIO PRO REPORTING

FLIR ROUTE CREATOR PLUG-IN

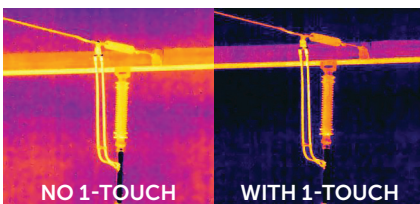
FLIR IGNITE™ CLOUD



Collect and manage critical data quickly and easily



Assess the state of equipment from a safe distance, at any angle, or in any lighting condition



Instantly dial in clarity and accuracy with 1-Touch Level/Span

IMPROVE WORKFLOW EFFICIENCIES

Collect and manage critical data quickly and easily

- Develop inspection routes in FLIR Thermal Studio Pro with FLIR Route Creator* and upload them to the camera for streamlined inspections of critical assets
- Acquire temperature data and thermal and visual imagery in a logical sequence for faster preventative/predictive maintenance procedures
- Upload directly and securely to FLIR Ignite cloud and automate data management and reporting through easy transfer of organized files to FLIR Thermal Studio Pro*

WORK SAFELY AND COMFORTABLY

Assess the state of equipment from a safe distance, at any angle, or in any lighting condition

- Use the camera in any environment – indoors or out – with a large, vibrant 4-inch color LCD display and an integrated eyepiece viewfinder for working in bright sunlight
- Image targets overhead or down low without strain thanks to the 180° rotating optical block and ergonomic design
- Accurately measure small targets over long distances or in large scenes by pairing the high-resolution IR sensor with the optional 6° telephoto lens

MAKE CRITICAL DECISIONS QUICKLY

Save time and share data faster to increase in-field efficiency

- Ensure precision measurement with laser-assisted autofocus, 1-Touch Level/Span, and exceptional temperature accuracy¹
- Avoid diagnostic errors with industry-leading image clarity from FLIR Vision Processing™, combining MSX, UltraMax, and proprietary adaptive filtering algorithms
- Optimize workflows with reporting features such as built-in voice annotation, customizable work folders, and Wi-Fi sync to FLIR mobile apps

*All new purchases include a three-month trial of FLIR Thermal Studio Pro and the FLIR Route Creator plugin. At the end of the trial period, users who choose not to purchase a full-year subscription will be transitioned to FLIR Thermal Studio Starter.

¹Accuracy as good as $\pm 1\%$ with T865, see specs for more details

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

www.teledyneflir.com

Imagery for illustration purposes only. Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited. ©2021 Teledyne FLIR LLC, Inc. All rights reserved. 10/2021

SPECIFICATIONS

Features By Camera	T840	T865	Annotations
IR Resolution	464 × 348 (161,472 pixels; 645,888 with UltraMax®)	640 × 480 (307,200 pixels; 1,228,800 with UltraMax®)	FLIR Inspection Route Enabled in the camera
Detector Pitch	17 µm	12 µm	Voice 60 sec. recording added to still images or video via built-in mic (has speaker) or via Bluetooth
Object Temperature Range	-20 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 2000°C (572°F to 3632°F)	Text Predefined list or touchscreen keyboard
Digital Zoom	1-6x continuous	1-8x continuous	Image Sketch Infrared images only; from touchscreen
Macro Mode (24° lens option)	71 µm min. focus distance	50 µm min. focus distance	METERLiNK® Yes
Spotmeter and Area	3 each in live mode	10 and 5 in live mode	GPS Automatic image tagging
Accuracy	±2°C (±3.6°F) -20°C to 100°C (-4°F to 212°F), ±2%: 100°C to 650°C (212°F to 1202°F), 300°C to 1500°C (572°F to 2732°F),	±1°C (±1.8°F): 5°C to 100°C (41°F to 212°F) ±1%: 100°F to 120°C (212°F to 248°F) ±2°C (±3.6°F): -40°C to 100°C (-40°F to 212°F) ±2%: 100°C to 650°C (212°F to 1202°F), 300°C to 2000°C (572°F to 3632°F) ±3%: 1800°C to 2000°C (3272°F to 3632°F) with 42° lens	Communication & Connections
Detector Data			Cloud Services (via Wi-Fi) FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)
Detector Type and Pitch	Uncooled microbolometer		METERLiNK (via Bluetooth) Wireless connection to FLIR meters with METERLiNK
Thermal Sensitivity/NETD	<30 mK @ 30°C (42° lens)		Image Storage
Spectral Range	7.5 - 14.0 µm		Storage Removable SD card; FLIR Ignite cloud uploading
Image Frequency	30 Hz		Image File Format Standard JPEG with measurement data included
Lens Identification	Automatic		Time Lapse (Infrared) 10 sec to 24 hrs
F-Number	f/1.1 (42° lens), f/1.3 (24° lens), f/1.5 (14° lens), f/13.5 (6° lens)		Video Recording and Streaming
Focus	Continuous with laser distance meter (LDM), one-shot LDM, one-shot contrast, manual		Radiometric IR Video Recording Real-time radiometric recording (.csq)
Minimum Focus Distance	"42° lens: 0.15 m/0.49 ft, 24° lens: 0.15 m/0.49 ft, 14° lens: 1.0 m/3.28 ft, 6° lens: 5.0 m/16.4 ft"		Non-Radiometric IR or Visual Video H.264 to memory card
Programmable Buttons	2		Radiometric IR Video Streaming Compressed, over UVC
Image Presentation and Modes			Non-Radiometric IR Video Streaming "H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi"
Display	4", 640 × 480 pixel touchscreen LCD with auto-rotation		Communication Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort
Digital Camera	5 MP with built-in LED photo/video lamp		Video Out DisplayPort
Color Palettes	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava		Additional Data
Image Modes	Infrared, visual, MSX®, Picture-in-picture		Languages 21
Picture-in-Picture	Resizable and movable		Battery Type Li-ion battery, charged in camera or on separate charger
UltraMax®	Activated in menu and processed in FLIR reporting software		Battery Operating Time Approx. 4 hours at 25°C (77°F) ambient temperature and typical use
Measurement and Analysis			Operating Temperature Range -15°C to 50°C (5°F to 122°F)
Measurement Presets	No measurement, Center spot, Hot spot, Cold spot, User Preset 1, User Preset 2		Shock/Vibration Encapsulation; Safety 25 g / IEC 60068-2-27, 2 g / IEC 60068-2-6 / IP 54; EN/UL/CSA/PSE 60950-1
Laser Pointer	Yes		Weight (including battery) 1.4 kg (3.1 lbs)
Laser Distance Meter	Yes; dedicated button, displays distance on-screen		Size (l×w×h, lens vertical) 164 × 201.3 × 84.1 mm (6.5 × 7.9 × 3.3 in)
On-screen Area Measurement	Yes; calculates area inside measurement box in m² or ft²		Box Contents
			Packaging Infrared camera with lens, small viewfinder eyecup, 2 rechargeable batteries, battery charger, hard transport case, lanyards, front lens cap, power supplies, printed documentation, SD card (8GB), cables (USB 2.0 A to USB Type-C, USB Type-C to HDMI, USB Type-C to USB Type-C), License card: FLIR Thermal Studio Pro (3-month subscription) + FLIR Route Creator Plugin for Thermal Studio Pro*

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

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

www.teledyneflir.com

Imagery for illustration purposes only. Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited. ©2021 Teledyne FLIR LLC, Inc. All rights reserved. 10/2021