

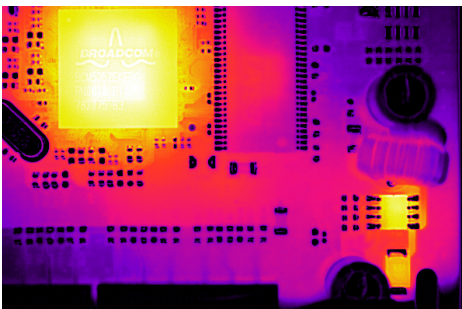


High-Performance Science Handheld Infrared Camera

FLIR T800-Series

FLIR T800-Series handheld infrared cameras provide ultimate flexibility and portability for research and science applications in multiple industries including electronics, aerospace, green energy, university research, military testing, and government labs. High-performance features including FLIR UltraMax®, MSX® (Multi-spectral Dynamic Imaging), and optional Macro Mode provide exceptional image quality and unmatched measurement capabilities. Robust on-board analysis and the ability to record fully radiometric movie files to a removable SD card allow users to take meaningful thermal data in nearly any environment or testing scenario. Users can expand data analysis capabilities with powerful FLIR Research Studio* software running on a PC, Mac, or Linux. With a streamlined, intuitive user interface and unique feature set, users at all levels can effortlessly record and evaluate thermal data from multiple FLIR cameras and recorded sources simultaneously.

flir.com/T-Series_Science

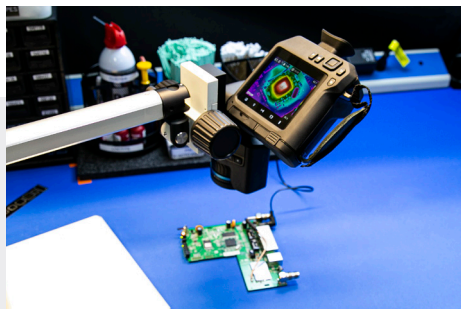


SUPERIOR MEASUREMENT CAPABILITIES

Accurately measure a wide range of temperatures and maximize the number of pixels on targets regardless of size or distance from the camera

- Acquire reliable temperature data with exceptional measurement accuracy†
- Produce crisp, vibrant imagery with FLIR MSX, which extracts scene details from the built-in visual camera and embosses them onto the full thermal image; and UltraMax, which enhances images up to 1.2 MP thermal resolution
- Perform wide-angle and macro imaging to measure small areas accurately without switching lenses using FLIR Macro Mode; or resolve temperatures on the smallest components with an optional 2x macro lens

†Accuracy as good as ±1% / ±1% with T865, see specs for more details



ULTIMATE FLEXIBILITY AND PORTABILITY

Collect meaningful thermal data in nearly any situation with flexible connectivity - whether the camera is handheld or mounted

- Record radiometric images and movie files directly to a removable SD-card (without the need to be connected to a PC) using on-board CSQ file recording
- Stream fully radiometric data to FLIR Research Studio* software via USB-C, and analyze and share thermal data easily
- Connect wirelessly to mobile devices using built-in Wi-Fi



SAVE TIME AND EFFORT

Eliminate the need for complex test set-ups when performing thermal analysis and start testing sooner

- Acquire compelling thermal data using the intuitive interface and icon-based touchscreen
- Record both thermal and visible images as well as infrared movie sequences
- Reduce the time and effort needed to learn new programs and start testing quicker with FLIR Research Studio's intuitive software platform

*A free 30-day trial of FLIR Research Studio software can be downloaded from the FLIR Technical Support Center (<https://flir.custhelp.com/>). Please contact a FLIR representative for pricing and purchase options.

SPECIFICATIONS

Imaging and Optical Data		T840	T865	Annotations	
IR Resolution		464 × 348 (161,472 pixels, 645,888 with UltraMax®)	640 × 480 (307,200 pixels, 1,228,800 with UltraMax®)	Voice	60 sec. recording added to still images or video via built-in mic (has speaker) or via Bluetooth®
Detector Pitch		17 µm	12 µm	Text	Predefined list or touchscreen keyboard
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)	-40°C to 120°C (-40°F to 248°F); 0°C to 650°C (32°F to 1202°F); 300°C to 2000°C (572°F to 3632°F)	Image Sketch	Infrared images only, from touchscreen
Digital Zoom		1-6× continuous	1-8× continuous	GPS	Automatic image tagging
Macro Mode (24° lens option)		71 µm min. focus distance	50 µm at near focus distance of 60 mm	METERLiNK®	Yes; connects to METERLiNK-enabled FLIR meters
Spotmeter and Area		3 each in live mode	10 and 5 in live mode	Image Storage	
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	Storage Media	Removable SD card
Detector Data		Uncooled microbolometer			
Detector Type and Pitch					
Thermal Sensitivity/NETD	<30 mK @ 30°C (42° lens)				
Spectral Range	7.5 to 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), f/1.35 (6° lens)				
Focus	Continuous with laser distance meter (LDM), One-shot LDM, One-shot contrast, manual				
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, 2x macro lens: 18 mm/0.059 ft				
Programmable Buttons	2				
Image Presentation					
Display	4-inch, 640 × 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				
Image Modes	Infrared, visual, MSX®, Picture-in-picture				
Picture-in-Picture	Resizable and movable				
UltraMax®	Activated in menu and processed in FLIR reporting software				
Measurement and Analysis					
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, displays distance on-screen				
On-screen Area Measurement	Yes; calculates area inside measurement box in m² or ft²				
Compatible Software	FLIR Research Studio, MathWorks® MATLAB® and Simulink®, FLIR Thermal Studio, FLIR Atlas SDK				
Additional Data					
Languages	21				
Battery Type	Li-ion battery, charged in camera or on separate charger				
Battery Operation	Approximately 4 hours at 25°C (77°F)				
Operating Temperature Range	-15°C to 50°C (5°F to 122°F)				
Shock/Vibration/Encapsulation	25 g (IEC 60068-2-27) / 2 g (IEC 60068-2-6) / IP54				
Safety	EN/UL/CSA/PSE 60950-1				
Weight (including battery)	1.4 kg (3.1 lb)				
Size (l × w × h, lens vertical)	164.3 × 201.3 × 84.1 mm (6.5 × 7.9 × 3.3 in)				
Box Contents					
Package Contents	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 (8 GB), cables (USB 2.0 A to USB Type-C, USB Type-C to HDMI, USB Type-C to USB Type-C)				

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

CORPORATE HEADQUARTERS
FLIR Systems, Inc.
1201 S. Joyce Street
Suite C006
Arlington, VA 22202
USA
PH: +1 703.682.3400

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.477.3687

LATIN AMERICA
FLIR Systems Brasil
Av. Antonio Bardella, 320
Sorocaba, SP 18085-852
Brasil
PH: +55 15 3238 8070

CANADA
FLIR Systems, Ltd.
3430 South Service Road, Suite 103
Burlington, ON L7N 3J5
Canada
PH: +1 800.613.0507

www.flir.com
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