

FLIR T630sc

Portable Thermal Imaging Camera



The T630sc infrared camera offers thermal and visual imagery, excellent spot size resolution, and reliable temperature measurement accuracy—all at an affordable price. Technicians, engineers, and scientists will appreciate features such as a built-in digital camera, voice annotation, laser target locator, GPS, and much more. The tiltable IR unit gives you great flexibility and allows you to conduct your experiments fast and in a comfortable position.

EXCELLENT IMAGE QUALITY AND THERMAL SENSITIVITY

The T630sc camera is equipped with an uncooled Vanadium Oxide (VOx) microbolometer detector that produces thermal images of 640 x 480 pixels. It generates crisp and clear detailed pictures that are easy to interpret, resulting in reliable imaging with high accuracy.

TOUCH SCREEN

The high quality LCD touch screen presents sharp and bright images and brings interactivity and user comfort to a new level. In combination with the large backlit buttons and joystick, the camera is very easy to use.

RADIOMETRIC RECORDING

The T630sc allows for full dynamic video streaming to a PC using USB or to mobile devices using Wi-Fi. It can also record visual and thermal non-radiometric MPEG-4 video files.

RICH FEATURE SET

The T630sc comes with features such as Multi Spectral Dynamic Imaging (MSX[®]), UltraMax™ image enhancement, auto-image rotation, image sketch, and autofocus. It is equipped with Auto Hot/Cold Spot and Audible/Visual Alarms. On-screen emissivity tables, up to 5 temperature measurement spots, and Delta T functionality mean you can quickly acquire and easily compare temperature data.

SOFTWARE

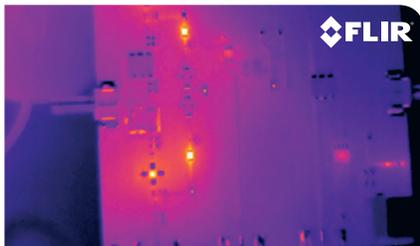
The FLIR T630sc camera works seamlessly with FLIR ResearchIR Max software, enabling intuitive viewing, recording, and advanced processing of thermal data.

MATHWORKS[®] MATLAB

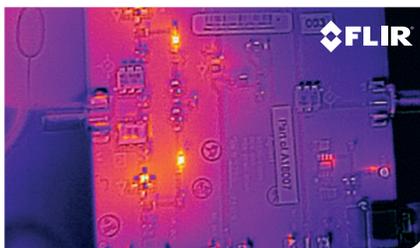
Control the T630sc and capture data directly into MathWorks[®] MATLAB software for advanced image analysis and enhancement.

KEY FEATURES

- Thermal and visual camera
- VOx uncooled microbolometer: 640 x 480 pixels
- Measures temperatures up to +2,000 °C
- Accuracy of +/- 2 °C
- Multi Spectral Dynamic Imaging (MSX[®])
- UltraMax™ for up to 1.2 MP thermal resolution
- Software included



Thermal image without MSX.



Thermal image with MSX. MSX allows you to see even more detail on the thermal image.



Specifications

System Overview	T630sc
Detector Type	Uncooled Microbolometer
Spectral Range	7.5 – 13.0 μm
Resolution	640 x 480
Detector Pitch	17 μm
NETD	<40 mK
Electronics / Imaging	
Time Constant	<8 ms
Frame Rate	30 Hz
Dynamic Range	14-bit
Digital Data Streaming	Real-time Radiometric = USB to PC Real-time Non-radiometric = MPEG via USB to PC
Analog Video	DVI over HDMI
GPS	Location Data Stores with Every Image
Command & Control	USB, WiFi
Measurement	
Object Temperature Range	-40°C to 150°C (-40°F to 302°F) +100°C to 650°C (+212°F to 1202°F)
Accuracy	$\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or 2%, Whichever is Greater, at 25°C Nominal
Optics	
Camera f/#	f/1.0, Integrated Lens 18 mm (25°)
Available Lenses	88.9 mm (7°), 41.3 mm (15°), 24.6 mm (25°), 13.1 mm (45°), 6.5 mm (80°)
Close-up Lenses / Microscopes	Close-up (25 μm), (50 μm), (100 μm)
Focus	Continuous Automatic or Manual (Motorized and Tactile)
Image Presentation	
On-Camera Display	Touch Screen/4.3 in LCD Display (800 x 480) LCD Viewfinder (800 x 480)
Auto-Orientation	Keeps Onscreen Temperature Data Upright in Portrait or Landscape
Automatic Gain Control	Manual, Linear, Histogram, DDE
Image Analysis	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms
Image Annotations	60 Sec Voice, Text, 4 x Markers, Sketch
Visible Image	5.0 Megapixel from Integrated Visible Camera
MSX® Enhancement/ Picture in Picture	Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image
UltraMax™ Image Enhancement	Increases Number of Pixels up to 4x Via Software
General	
Operating Temperature Range	-15°C to 50°C (5°F to 122°F)
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)
Encapsulation	IP 54 (IEC 60529)
Bump / Vibration	25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6)
External Power	AC Adapter 90-260 VAC, 50/60 Hz or 12 V from a Vehicle
Battery System	Li Ion, 4 Hours Operating Time
Weight w/ Battery	1.3 kg (2.87 lb)
Size (L x W x H)	143 x 195 x 95 mm (4.2 x 7.9 x 4.9 in)
Mounting	¼"-20



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