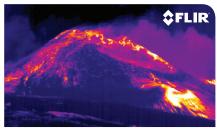
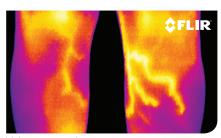
STAR STARTS



Thermal surveillance of volcanos



Vein cartography

FLIR T430sc

Compact, Portable Thermal Imaging Camera

The FLIR T430sc is a thermal imaging camera with a rotating optical block and touch screen interface. This handheld camera is perfect for bench-top testing in the lab or dynamic testing in the field. The tiltable IR unit gives you great flexibility and allows you to conduct your experiments fast and in a comfortable position.

IMAGE QUALITY AND THERMAL SENSITIVITY

The T430sc is equipped with an uncooled Vanadium Oxide (VOx) microbolometer detector that produces thermal images of 320 x 240 pixels. It generates crisp and clear detailed images that are easy to interpret, resulting in reliable imaging with high accuracy. The T430sc is also equipped with a visual camera.

TOUCH SCREEN

The high quality LCD touch screen presents sharp, bright images, bringing interactivity and user comfort to a new level. These features combined with the large back-lit buttons and joystick make the camera very easy to use.

RADIOMETRIC RECORDING

The T430sc 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 camera 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 T430sc camera works seamlessly with FLIR ResearchIR Max software, enabling intuitive viewing, recording, and advanced processing of thermal data.

MATHWORKS® MATLAB

Control and capture data directly into MathWorks® Matlab software for advanced image analysis and processing.

KEY FEATURES

- Thermal and visual camera
- VOx uncooled microbolometer: 320 x 240 pixels
- Multi Spectral Dynamic Imaging (MSX®)
- UltraMax[™] for up to 640 x 480 pixel thermal resolution
- Software included





Specifications

System Overview	T430sc
Detector Type	Uncooled Microbolometer
Spectral Range	7.5 – 13.0 µm
Resolution	320 × 240
Detector Pitch	25 μm
NETD	<30 mK
Electronics / Imaging	
Time Constant	<12 ms
Frame Rate	60 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	Composite Video / RCA Connector
Command & Control	USB, WiFi
Measurement	
Object Temperature Range	-20°C to +120°C (-4°F to +248°F) 0°C to +650°C (+32°F to +1202°F
Accuracy	±2°C or 2%, Whichever is Greater, at 25°C Nominal
Optics	
Camera f/#	f/1.3 Integrated Lens 18 mm (25°)
Available Lenses	76 mm (6°), 30 mm (15°), 10 mm (45°), 4 mm (90°)
Close-up Lenses / Microscopes	Close-up (25 μm), (50 μm), (100 μm)
Focus	Automatic or Manual (Motorized)
Image Presentation	
On-Camera Display	Touch Screen/3.5 in LCD Display (320 × 240)
Auto-Orientation	Keeps Onscreen Temperature Data Upright in Portrait or Landscape
Automatic Gain Control	
	Manual, Linear, Histogram, DDE
Image Analysis	Manual, Linear, Histogram, DDE Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms
	Spot Meters, Areas, Auto Hot / Cold Detection,
Image Analysis	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms
Image Analysis Image Annotations	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch
Image Analysis Image Annotations Visible Image MSX® Enhancement/	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera
Image Analysis Image Annotations Visible Image MSX® Enhancement/ Picture in Picture	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image
Image Analysis Image Annotations Visible Image MSX® Enhancement/ Picture in Picture UltraMax™ Image Enhancement	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image
Image Analysis Image Annotations Visible Image MSX® Enhancement/ Picture in Picture UltraMax™ Image Enhancement General	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image Increases Number of Pixels up to 4x Via Software
Image Analysis Image Annotations Visible Image MSX® Enhancement/ Picture in Picture UltraMax™ Image Enhancement General Operating Temperature Range	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image Increases Number of Pixels up to 4x Via Software -15°C to 50°C (5°F to 122°F)
Image Analysis Image Annotations Visible Image MSX® Enhancement/ Picture in Picture UltraMax™ Image Enhancement General Operating Temperature Range Storage Temperature Range	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image Increases Number of Pixels up to 4x Via Software -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F)
Image Analysis Image Annotations Visible Image MSX® Enhancement/ Picture in Picture UltraMax™ Image Enhancement General Operating Temperature Range Storage Temperature Range Encapsulation	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image Increases Number of Pixels up to 4x Via Software -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F) IP 54 (IEC 60529)
Image Analysis Image Annotations Visible Image MSX® Enhancement/ Picture in Picture UltraMax™ Image Enhancement General Operating Temperature Range Storage Temperature Range Encapsulation Bump / Vibration	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image Increases Number of Pixels up to 4x Via Software -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F) IP 54 (IEC 60529) 25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6)
Image Analysis Image Annotations Visible Image MSX® Enhancement/ Picture in Picture UltraMax™ Image Enhancement General Operating Temperature Range Storage Temperature Range Encapsulation Bump / Vibration External Power	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image Increases Number of Pixels up to 4x Via Software -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F) IP 54 (IEC 60529) 25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6) AC Adapter 90-260 VAC, 50/60 Hz or 12 V from a Vehicle
Image Analysis Image Annotations Visible Image MSX® Enhancement/ Picture in Picture UltraMax™ Image Enhancement General Operating Temperature Range Storage Temperature Range Encapsulation Bump / Vibration External Power Battery System	Spot Meters, Areas, Auto Hot / Cold Detection, Difference Temp, Isotherms, Alarms 60 Sec Voice, Text, 4 x Markers, Sketch 3.1 Megapixel from Integrated Visible Camera Adds Visible Detail to Thermal/P-i-P Overlays Thermal on Visible Image Increases Number of Pixels up to 4x Via Software -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F) IP 54 (IEC 60529) 25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6) AC Adapter 90-260 VAC, 50/60 Hz or 12 V from a Vehicle Li Ion, 4 Hours Operating Time



PORTLAND

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

EUROPE

FLIR Systems Luxemburgstraat 2 2321 Meer Belgium PH: +32 (0) 3665 5100

SWEDEN

FLIR Systems AB Antennvägen 6, PO Box 7376 SE-187 66 Täby Sweden PH: +46 (0)8 753 25 00

HONG KONG

FLIR Systems Co., Ltd Rm 1613-16, Tower II Grand Central Plaza 138 Shatin Rural Committee Road Shatin, New Territories Hong Kong TEL: +852 2792 8955

www.flir.com/research NASDAQ: FLIR

Specifications are subject to change without notice @Copyright 2015, FLIR Systems, Inc. All other brand and product names are trademarks of their respective owners. The images displayed may not be representative of the actual resolution of the camera shown. Images for illustrative purposes only. (Updated 01/06/16)

NASHUA

FLIR Systems, Inc. 9 Townsend West Nashua, NH 06063 USA PH: +1 866.477.3687

UK

FLIR Systems UK 2 Kings Hill Avenue Kings Hill West Malling - Kent ME19 4AQ United Kingdom PH: +44 (0)1732 220 011

LATIN AMERICA

FLIR Systems Brasil Av. Antonio Bardella, 320 Sorocaba, SP 18052-852 Brasil TEL: +55 15 3238 7080

CANADA

FLIR Systems, Ltd. 920 Sheldon Court Burlington, ON L7L 5L6 Canada PH: +1 800.613.0507

