High Performance Infrared Camera

With On-Board Visual Camera, Thermal Fusion, Touch Screen, Wi-Fi Connectivity, Interchangeable Lens, Plus MSX™ Image Enhancement and FOV Match

OSXL-T420 and OSXL-T440

2 YEAR WARRANTY CE RoHS

ꙮ OMEGA® Powered By ◆FLIR®

Please Note: Not for export, USA only

Optics head and display screen independently rotate for optimum viewing.

OSXL-T420 shown smaller than actual size.

Large 3.5" color touch-screen LCD.

✔ **1.3 MegaPixel Visual Camera**

✔ **Automatically Associates the Visual and Thermal JPEG Images**

✔ **Includes Free QuickReport Software for Analysis and Reporting**

✔ **Removable SD/Memory Card, USB and Video Out**

✔ **Onscreen Thumbnail Image Gallery**

✔ **In-Camera Emissivity Tables, 5 Temperature Spots and Delta T Functionality**

✔ **Touch Screen Technology Adds Markers, Draws, Sketches**

✔ **Auto or Manual Focus with Up to 8x Continuous Digital Zoom**

✔ **Auto Hot/Cold Spot and Audible/Visual Alarms**

✔ **High Thermal Sensitivity for Maximum Temperature Accuracy**

✔ **Voice, Text and Sketch Annotation**

✔ **Built-In LaserLocatIR™**

✔ **Long 4-Hour Battery with In-Camera Charging or Car Charger**

The OSXL-T400 delivers 320 x 240 IR resolution—that's 76,800 pixels. This, combined with FLIR's exclusive Advanced Signal Processing, reduces image "noise" and produces razor-sharp thermal images four times the resolution of competing brands with 160 x 120 resolution. Image, as they say, is everything!

The OSXL-T400 offers both auto and manual focus, making it easy for anyone to take razor-sharp thermal images and helping those new to infrared from taking out-of-focus images. A powerful one-touch 8x continuous digital zoom lets you zero-in to the optimal view, whereas other cameras deliver only preset zooms.

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NEW

The OSXL-T400 comes with a built-in standard 25° lens with the option of adding on a 45° wide angle or 15° telephoto lens.

An easy-to-access thumbnail image gallery is available to help you quickly review your saved thermal images to find the one you want—a massive convenience and time saver!

Touch screen technology lets you save text, markers or even sketches right with your thermal images, directly on the camera right from the work site. It's like having a note and sketch pad with you every time you turn on the camera—increasing your productivity and the quality of your reports.

Capture visible images at the same time you capture your thermal image with a built-in 1.3 mega pixel digital camera. Includes a target illuminator for low light situations. You can draw markers using touch screen technology that works directly on the visual image.

Thousands of images can be stored to a standard removable SD memory card. Use the audio port to connect a headset and record voice comments while you work with the camera. Voice comments are stored with the IR image and can be played back using FLIR QuickReport or FLIR Reporter. A standard Video port lets you display your images in real-time with any number of off-the-shelf video displays— ideal when working with a team or showing thermal output to customers, clients or superiors. A standard USB port allows for automatic image download from the camera using FLIR QuickReport.

The infrared image is more than just a picture. All temperature data, object parameters, analysis tools, voice and text comments are stored with the infrared image, allowing for advanced postprocessing and report writing using QuickReport (included) or FLIR's Microsoft®Word®-Based Reporter. Add voice comments in the field using a headset. Add text annotation using a touch screen keypad or a text comment file containing a list of preset values. The OSXL-T400 JPEG image format combined with FLIR's versatile PC software creates a powerful and unique Thermography system that eases data collection in the field.

The OSXL-T400 comes with FREE QuickReport analysis and reporting software. Optional Reporter software allows you to transfer fully radiometric—or "live" —images into Word so you can go back and edit reports, adjust temperature span or change color palettes at any time—critical functionality if you intend to email reports to peers, customers or superiors, or simply if you want to run spell check!

Temperature difference is the most frequently used measurement parameter for assessing the condition of electrical components and other plant assets. Accurate temperature difference information could determine if the color variation detected with the camera represents a normal operating condition or a problem that is about to start a fire. The OSXL-T400 makes this information easy to see and communicate with the delta temperature mode. Just place a reference spot on a target operating at normal temperature and another on the target with elevated temperature. The delta temperature function immediately displays the difference between these two targets on the image making it easy for you to diagnose the severity of the problem. The image can then be stored with these measurements and incorporated into the report. It's the easiest and fastest way to diagnose and report your IR findings.

Seeing the hottest or coldest spot on the thermal image is often a critical requirement. FLIR's advanced in-camera algorithms make this normally time-consuming task a breeze. You can even pre-set temperature triggers to sound audible or show visible alarms, and the advanced in-camera tools can identify overheating circuits, missing insulation, mechanical failures, water intrusion leaks and literally "sound off" to alert you to a potential problem with the target you are scanning.

Specifications

Temperature Range:
OSXL-T420: -20 to 650°C (-4 to 1202°F)
OSXL-T440: -20 to 1200°C (-4 to 2192°F)

Zoom:
OSXL-T420: 4X continuous
OSXL-T440: 8X continuous

LCD Image Sketch (OSXL-T440): Draw on stored images right on touchscreen

Multi-Spectral Dynamic Imaging (MSX) (OSXL-T440): IR image with enhanced detail presentation

Measurement Presets (OSXL-T440): Presets for standard measurements

Profile Measurement Analysis (OSXL-T440): Shows a live graph of temperatures across a line on the image

Optic image of a motor.

Thermal image of motor above to detect hot spots.
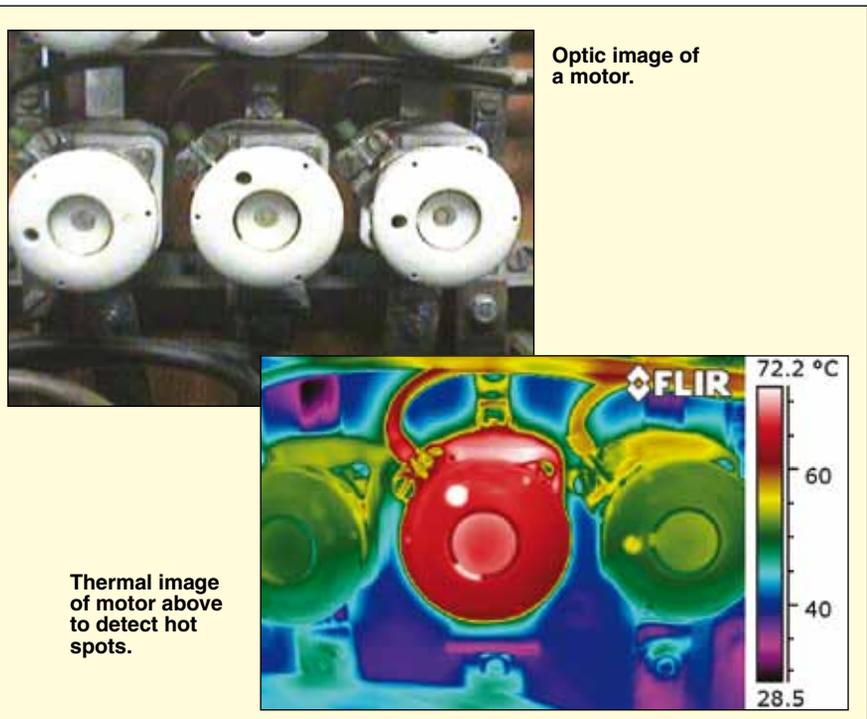
Common Specifications

Frame Rate: 60 Hz

Field of View/Minimum Focus Distance/FOV Match: 25° x 19°/ 0.4 m (1.31')/field of view match where digital Image FOV adapts to the IR lens

Focus: Manual/automatic

Thermal Sensitivity (N.E.T.D): <0.045°C at 30°C

Detector Type—Focal Plane Array (FPA) Uncooled Microbolometer: 320 x 240 pixels

Spectral Range: 7.5 to 13 μm

Display: Built-in touch-screen 89 mm (3.5") color LCD

Image Modes: Thermal/visual/fusion/ P-i-P and thumbnail gallery

Image Storage: 1000 radiometric JPEG images (SD card memory)

Image Annotation: Voice (60 seconds); text comments, sketch, image markers on IR

Periodic Image Storage: 7 seconds to 24 hours (IR) and 14 seconds to 24 hours (IR and visual)

Lens: 25° (optional 6°, 15°, 45°, 90°, close up 100, 50 μm lenses available)

Video Lamp: Bright LED lamp

Laser Classification/Type: Class 2/ semiconductor AlGaInP diode laser, 1 mW/635 nm (red)

Set-Up Controls: Mode selector, color palettes, configure info to be shown in image, local adaptation of units, language, date and time formats, and image gallery

Measurement Modes: 5 Spotmeters, 5 box areas, isotherm, auto hot/cold spot, Delta T

Measurement Correction: Reflected ambient temperature and emissivity correction

Video Recording in Camera and Video Streaming: Non-radiometric IR-video recording (MPEG-4 to memory card), radiometric IR-video streaming (full dynamic to PC using USB or Wi-Fi), and non-radiometric IR-video streaming (MPEG-4 using Wi-Fi and uncompressed colorized video using USB)

Instant Report: Create a thermographic Inspection report directly in the camera

Battery Type/Operating Time: li-ion/>4 hours (included), display shows battery status

Charging System: In camera AC adaptor/battery charging system

Shock/Vibration: 25G, IEC 60068-2-29/2G, IEC 60068-2-6

Dimensions: 106 x 201 x 125 mm (4.2 x 7.9 x 4.9")

Weight: 0.88 kg (1.94 lb), including battery

2-5-10 Warranty: When the camera is registered within 60 days; 2 years on parts/labor for the camera; 5 years coverage on batteries; 10 years of protection on the IR detector

Electrical inspections and utility market.
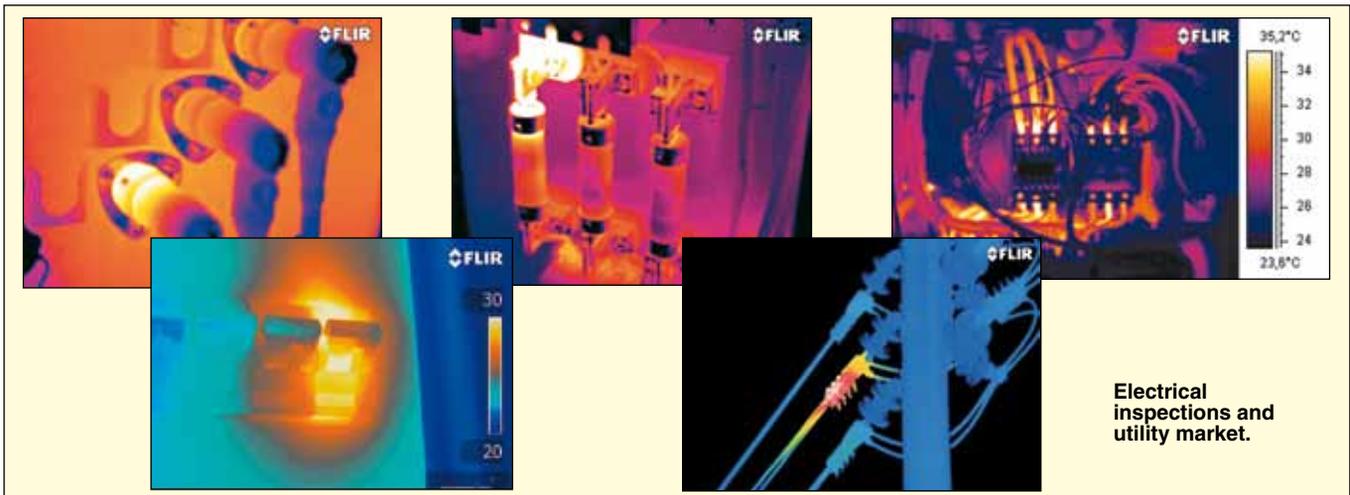
To Order

Model No.	Description
OSXL-T420	Thermal imaging infrared camera (320 x 240), 4X zoom
OSXL-T440	Thermal imaging infrared camera (320 x 240), 8X zoom

Accessories

Model No.	Description
1196398	Spare li-ion rechargeable battery
1910490	Cigarette lighter adaptor kit, 12 Vdc [1.2 m (3.9') cable]
T197650	Battery charger including power supply (multi plugs)
T911048	Camera pouch case
T197717	FLIR Reporter Professional Software
4114887	FLIR ThermaTrak™ Software embedded

Comes complete with IR camera with 25° lens, 30 Hz image frequency, integral visible light camera with lamp, transport case, lens cap, li-ion battery, battery charger, 3.5 mm plug headset, video cable, 2 m (6.6') USB cable standard, SD memory card, sun shield, stylus pen, user documentation CD-ROM in 21 languages, QuickReport Software, power supply and operator's manual.

Ordering Example: OSXL-T420, *thermal imaging infrared camera (320 x 240), 4X zoom.*

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