Thermal Imager

- **Excellent Thermal Image and High Accuracy Temperature Measurement**
- **Wide Temperature Measurement Range up to 1200°C (2192°F)**
- **Laser Pointer**
- **Built-In Microphone to Record 40 Seconds of Voice Annotation**
- **Automatic Hot/Cold/Average Spot Recognition**
- **Intuitive and Easy Operating Menu**
- **Multifunction PC Analysis Software**

This new generation OSXL160 infrared camera (equipped with uncooled focal plan array micro-bolometer) produces crisp thermal image and accurate temperature reading to help increase system maintenance quality and efficiency in many industries. The OSXL160 thermal imager is packed with advanced features, such as colored thermal image, voice annotation, sound and color alarm, FLASH memory storage, USB connection to PC, and analysis software. Crisp thermal image, accurate temperature reading, clear user interface, reliable product quality, and affordable cost makes OSXL160 infrared camera the new standard in infrared imaging industry!

Typical Applications

Power Plant: Monitor and diagnose the condition of electrical wire and equipment, detect power leak, and prevent system malfunction

Petrochemical Industry: Oil pipeline check, material interface detect, heat leakage, insulation structure and power equipment detect

Fire Protection: Forest fire protection and latent fire source search, self-ignition prevention and detection of special material, electric fire precaution detect

Building Industry: Humidity, air leakage and insulation defects detect

Other Applications: Civil engineering, university research, and railway

The OSXL160 comes complete with standard IR lens, 2 Li-ion batteries, battery charger, video cable, USB cable, software CD, transport case, and operator's manual.

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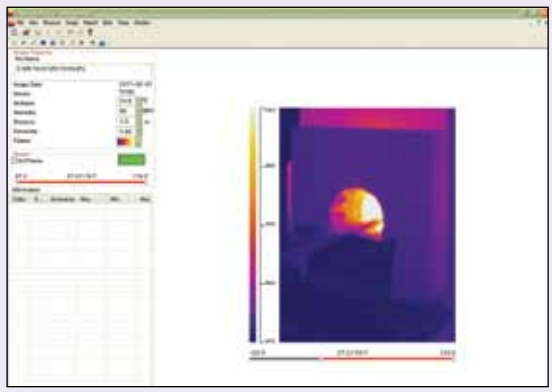
Thermal Imager

Multifunction PC Analysis Sofware Included!

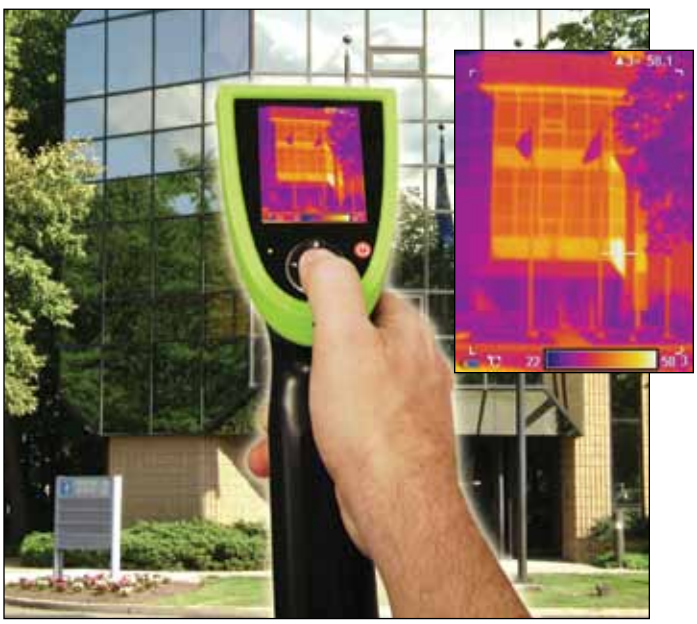


Allows users to analyze thermal images and visible images, and export all information into Microsoft Word for easy editing.

The OSXL160 Thermal Imager at Work

OSXL160 shown measuring an engine's surface temperature.

OSXL160 shown measuring temperature of food stored in a walk-in cooler.



OSXL160 shown measuring temperature differences on windows and building surfaces.

OSXL160 shown measuring thermal leakage around a doorway.

SPECIFICATIONS

IR Detector Data

Detector Type: Focal Plane Array (FPA), uncooled microbolometer

IR Resolution: 160 x 120 pixels

Pixel Pitch: 25µµm

Infrared Image Quality

Field of View (FOV): 21°x 16°/0.15 m (standard lens)

Spatial Resolution: 1mrad/f=25mm

Thermal Sensitivity (NETD): <65mk at 30°C

Image Frequency: 50/60 Hz

Focus: Manual

Digital Zoom: 2x

Spectral Range: 8 to 14µµm

Display: Built-in 3.5" color LCD

Measurement

Temperature Ranges:
-20 to 120°C (-4 to 248°F)
0 to 350°C (32 to 662°F) (switchable)
up to 1200°C (2192°F)

Accuracy: ±2°C or ±2% (reading range), select the bigger value

Measure Rectification: Auto/Manual

Measurement Mode: 4 spots, 3 areas available under real time mode (max, min and average temp) line measure, isothermal display, temp difference measure and temp alarm (sound/color)

Color Palette: 12 colors selectable (including iron red, rainbow, black-white, and white-black etc.)

System Set-Up: Date, time, temperature unit, 10 languages available; Chinese (simplified and traditional), English, Italian, Japanese, Russian, French, German, Korean, Spanish and Portuguese

Emissivity: Adjustable from 0.01 to 1.0

Atmospheric Trans: Auto, according to distance, relative humidity, ambient temperature input

Temperature Correction: Auto, according to background temperature input

Image Storage

Storage Media (Built-In Memory): Up to 1500 images

Storage Mode: Auto/Manual single frame image storage

File Formats: Standard JPEG, 14 bit measurement data

Voice Annotation: 40 sec voice recording per image (built-in microphone)

Laser

Director: Classification type: Class 2, 1 mW/635 nm red

Power Supply

Battery Type: Rechargeable Li-ion batteries (included)

Battery Operating Time: Approx 3 hours

Power Saving: User defined

External Power: 12 V ±5% DC

Operating Condition

Operating Temperature Range: -20 to 50°C (-4 to 122°F)

Storage Temperature Range: -40 to 60°C (-40 to 140°F)

Humidity (Operating and Storage): ≤90% (non condensing)

Protection Grade: IP54

Physical Data

Dimensions: 330 L x 95 W x 86 mm H (12 x 3.7 x 3.4")

Weight: 660 g (1.45 lbs)

Tripod Mounting: ¼" –20

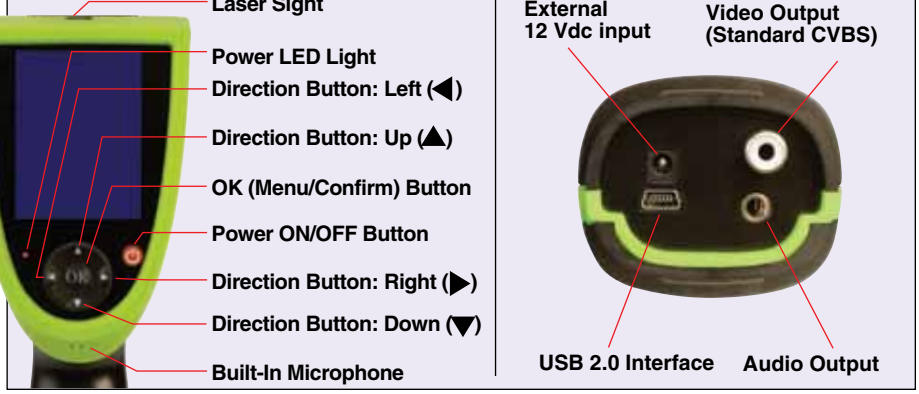
Interfaces

External DC Input: Yes

Audio Output: Yes

Video Output: PAL/NTSC

PC: USB



OMEGACARE℠ Extended Warranty Program

OMEGACARE℠ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE℠ covers parts, labor and equivalent loaners.

To Order

Model No.	Description
OSXL160	Thermal imager, meaures up to 1200°C (2192°F)
Accessories	
TRIPOD	Lightweight tripod expands 305 mm to 1.1 m (12 to 45")
OSXL160-LIBAT	Replacement li-ion battery
OSXL160-CHARGER	Replacement battery charger
OSXL160-USB	Replacement USB cable

Comes complete with standard infrared lens, 2 li-ion batteries, battery charger, video cable, USB cable, software CD, transport case, and operator's manual.

***Ordering Example: OSXL160,** thermal imager, **TRIPOD,** lightweight tripod.*

***OCW-2,** OMEGACARE℠ extends standard 1-year warranty to a total of 3 years.*