Thermal Imaging Camera



- ✓ Interchangeable Lenses
- ✓ Upper Temperature Range of 300°C (482°F)
- ✓ 160 x 120 (19,200)

 Pixel Focal Plane,

 OSXL-TIC104: 384 x 288

 Array IR Detector
- ✓ Temperature Sensitivity of ±0.08°C (±0.14°F) or Better
- 100 mm (4") Minimum Focal Distance Allows Close-Up Work
- Included 2 GB MicroSD Card Stores Images for Later Uploading to PC
- ✓ USB 2.0 and Video Out Jacks
- ✓ Bright 89 mm (3.5")
 Diagonal Flip-Up
 Color LCD
- Bluetooth Headset for Voice Annotation (OSXL-TIC103)
- ✓ Variable Emissivity
- Tripod Mount (Optional Adaptor)
- ✓ Water, Dust and Oil-Resistant to IP54 Standard
- Shock and Vibration-Resistant
- Powered by Rechargeable Li-lon Battery
- ✓ Up to 5 Hours of Operation Using 2 Batteries, AC Adaptor

The OSXL-TIC is ideal for revealing hidden heat-driven processes and problems. Applications include: equipment maintenance, repair and operations (MRO); building energy audits; process/manufacturing plant maintenance; water damage restoration; firefighting; navigation; surveillance.





Specifications

Picture-In-Picture Mode

(Visual + Thermal Image Fusion):

OSXL-TIC101: No

OSXL-TIC102, OSXL-TIC103,

OSXL-TIC104: Yes

Analysis Tools:

OSXL-TIC101: 2 moveable spots,

isothermal analysis

OSXL-TIC102: 4 moveable spots,

isothermal analysis

OSXL-TIC103 and OSXL-TIC104:

9 movable spots, isothermal analysis profile analysis,

5 area analysis

LED Flashlight:

OSXL-TIC101: No

OSXL-TIC102, OSXL-TIC103,

OSXL-TIC104: Yes

Temperature Alarms:

OSXL-TIC101: No OSXL-TIC102, OSXL-TIC103,

OSXL-TIC102, OSXL-TIC103,

Visual File Format:

OSXL-TIC101: Prop SAT/JPG OSXL-TIC102, OSXL-TIC103, OSXL-TIC104: Prop SAT/CCD/JPG

Visual Image Display Resolution: OSXL-TIC101, OSXL-TIC102,

OSXL-TIC103: 320 x 240 pixels **OSXL-TIC104:** 640 x 480 pixels

Thermal Video Streaming:

OSXL-TIC101 and OSXL-TIC102: No

OSXL-TIC103 and OSXL-TIC104:

Yes (via USB), requires optional pro software

Voice Annotation:

OSXL-TIC101 and

OSXL-TIC102: No

OSXL-TIC103 and OSXL-TIC104:

Yes (via bluetooth)

IR Detector Resolution:

OSXL-TIC101, OSXL-TIC102 and

OSXL-TIC103: 160 x 120 pixels

(19,200 pixels)

OSXL-TIC104: 384 x 288 pixels

(76,800 pixels)

Spatial Resolution:

OSXL-TIC101, OSXL-TIC102 and

OSXL-TIC103: 2.2 mrad OSXL-TIC104: 1.3 mrad

Thermal Sensitivity at 30°C (86°F):

OSXL-TIC101, OSXL-TIC102 and

OSXL-TIC103: 0.08°C (±1.4°F)

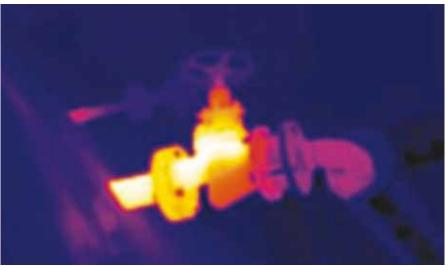
OSXL-TIC104: 0.04°C (±0.072°F)

Field of View:

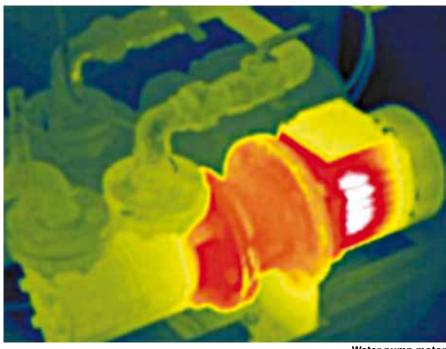
OSXL-TIC101, OSXL-TIC102 and

OSXL-TIC103: 20 x 15° **OSXL-TIC104:** 24 x 18°

Refresh Rate: 30 frames per second Accuracy: ±2°C (±3°F) or 2% of rdg



A hot water valve (image taken in the dark)



IR Detector Spectral Range: 8 to 14 μm Laser Pointer: Yes

Temperature Measurement Range:

-20 to 300°C (-4 to 572°F), upgradeable to 1500°C (2732°F)

Detector Type: Uncooled focal plane

array, manual focusing

Measurement Compensation

Factors: Emissivity, ambient temperature, humidity, distance

Focusing: Manual

Minimum Focal Distance:

100 mm (4")

Optional Telephoto and Wide-Angle

Lenses: Yes (6.4, 9 and 38° field of

view available)

Display: Flip-up 89 mm (3.5")

diagonal color LCD

Auto Hot/Cold Spot Indicator: Yes Video Output Formats: NTSC, PAL

Color Palettes: Ironbow,

iron-inverted, rainbow, feather, grey,

grey-inverted

Water pump motor

Image Storage Medium, Capacity: 2 GB miniSD memory card (included)

Thermal File Format: Proprietary

SAT, radiometric, JPG **Text Input:** No

Battery: Rechargeable lithium-ion
Total Charge Capacity: Up to
5 hours continuous with 2 batteries

Power Saver Mode: Yes

Operating Temperature: -20 to 50°C (-4 to 122°F) @ 10 to 90% RH Water/Dust/Oil Resistance: IP54 Shock Resistance: Operational 25G Vibration Resistance: Operational 2G

Weight: 580 g (1.3 lb)

Dimensions: 172 x 80 x 162 mm

(6.8 x 3.1 x 6.4")

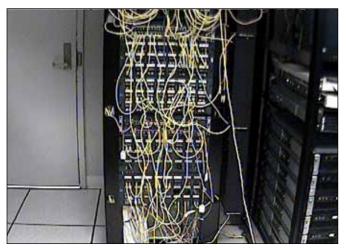
Tripod Mount: Standard base

(adaptor optional)

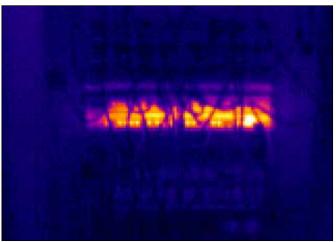
External Power Source: AC adaptor

(optional)





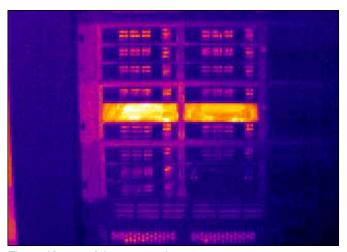
Optic image of a computer network rack system.



Thermal image of the same rack system.



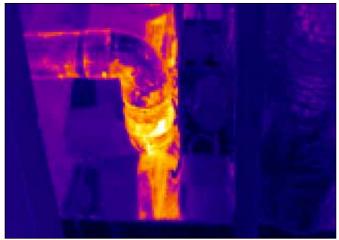
Optic image of a network hard drive rack.



Thermal image of the same rack.



Thermal image of a power supply.



Thermal image of a heating pipe.







To Order Visit omega.com/osxl-tic for Pricing and Details		
Model No.	Description	
OSXL-TIC101	Thermal imager, 160 x 120 pixels (19,200 pixels)	
OSXL-TIC102	Thermal and visual imager with picture-in-picture, 160 x 120 pixels (19,200 pixels)	
OSXL-TIC103	Thermal and visual imager with picture-in-picture, streaming and Bluetooth headset for voice annotation, 160 x 120 pixels (19,200 pixels)	
OSXL-TIC104	Thermal and visual imager with picture-in-picture, streaming and voice annotation, 384 x 288 pixels	

Accessories

Model No.	Description
OSXL-TIC-AC	AC adaptor
OSXL-TIC-BATT	Replacement li-ion battery
OSXL-TIC-SOFT	Professional software
TRIPOD	Lightweight tripod expands 305 mm to 1.1 m (12 to 45")
OSXL-TIC12	Lens for OSXL-TIC101/102/103, 12° field of view
OSXL-TIC14	Lens for OSXL-TIC101/102/103, 14° field of view
OSXL-TIC28	Lens for OSXL-TIC101/102/103, wide angle lens 28° field of view
OSXL-TIC38	Lens for OSXL-TIC101/102/103, wide angle lens 38° field of view
OSXL-TIC4.8	Lens for OSXL-TIC101/102/103, telephoto lens with 4.8° field of view
OSXL-TIC6.4	Lens for OSXL-TIC101/102/103, telephoto lens with 6.4° field of view
OSXL-TIC9	Lens for OSXL-TIC101/102/103, telephoto lens with 9° field of view
OSXL-TIC104-12	Lens only OSXL-TIC104, 12° field of view
OSXL-TIC104-28	Lens only OSXL-TIC104, wide angle lens 28° field of view
OSXL-TIC104-48	Lens only OSXL-TIC104, wide angle lens 48° field of view

Comes complete with 2 rechargeable li-ion batteries, compact battery charger, 2 GB miniSD memory card, SD card reader, video cable with BNC plug, USB 2.0 cable, bluetooth headset with charger (OSXL-TIC103 and OSXL-TIC104 only), lens cap, analysis and reporting software on CD, calibration certificate, hand straps, custom hard case and operator's manual on CD.

Ordering Example: OSXL-TIC101, thermal imaging camera. OCW-1, OMEGACARESM extends standard 3-year warranty to a total of 4 years.