



HYGIENIC TEMPERATURE SENSORS

Thermal Imager

OSXL-101
£1335



- ✓ Thermal Imager with Ethernet Connection
- ✓ Easy to Use and Implement
- ✓ 2256 Pixel Resolution
- ✓ Built-In Alarms
- ✓ IP65 (NEMA 4)

The OSXL-101 is a compact infrared thermal imaging sensor utilizing a thermopile array detector. The OSXL-101 sensor measures real-time temperature and a thermal image up to 300°C (572°F). Ethernet connectivity allows the sensor to communicate with the PC running the application software or customers LAN.

Specifications

Temp Range: -20 to 300°C (-4 to 572°F)

Working Temp: -10 to 50°C (14 to 122°F)

Working RH: 10 to 80% RH
(no dew condensation)

Temperature Resolution: 0.5°C

Accuracy: ±2% of reading or ±3°C
whichever larger
(at ambient temp of 25°C ±2°C)

Detector: Thermopile array,
48 x 47 pixels

Wavelength: Center wavelength 10µm

Viewable Angle: 60°x 60°

Radius Resolution: 21.8 mrad

Frame Speed: 3 fps (1 fps for alarm output)

Focus: Fixed focus

Emissivity: 0.10 to 1.00

Ethernet: 10BASE-T/100BASE-TX

Alarm: 2 SPST (non-voltage contact output)

Power Supply: 9 to 30 Vdc

Power Consumption:

Max 2VA @ 12 Vdc

Inrush Current: Max 1.3A @ 12 Vdc

(The inrush current should be considered for the selection of power)

Casing: Polycarbonate (color: black)

Weight: Approx. 150 g (5.2 oz)
(sensor only)

Protection: IP65 (NEMA 4) (with provided exclusive cable and tripod screw)

Standards: CE (EN61326 Annex A)

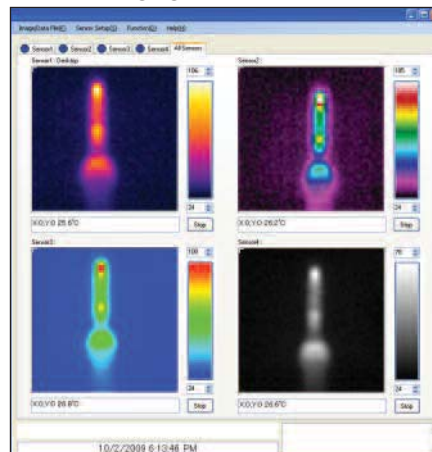


OSXL-101, £1335, shown with mounting stand (included).

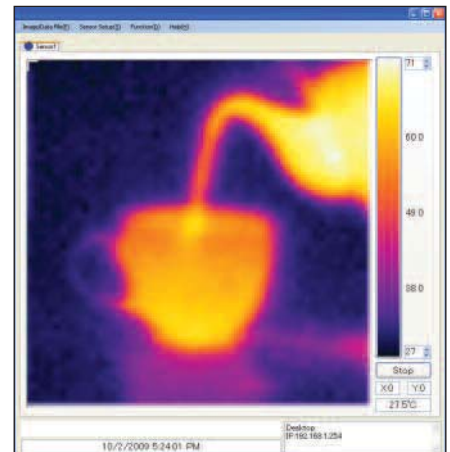


Mounting stand features a ball-socket fitting for full range of motion.

Thermal imaging software included.

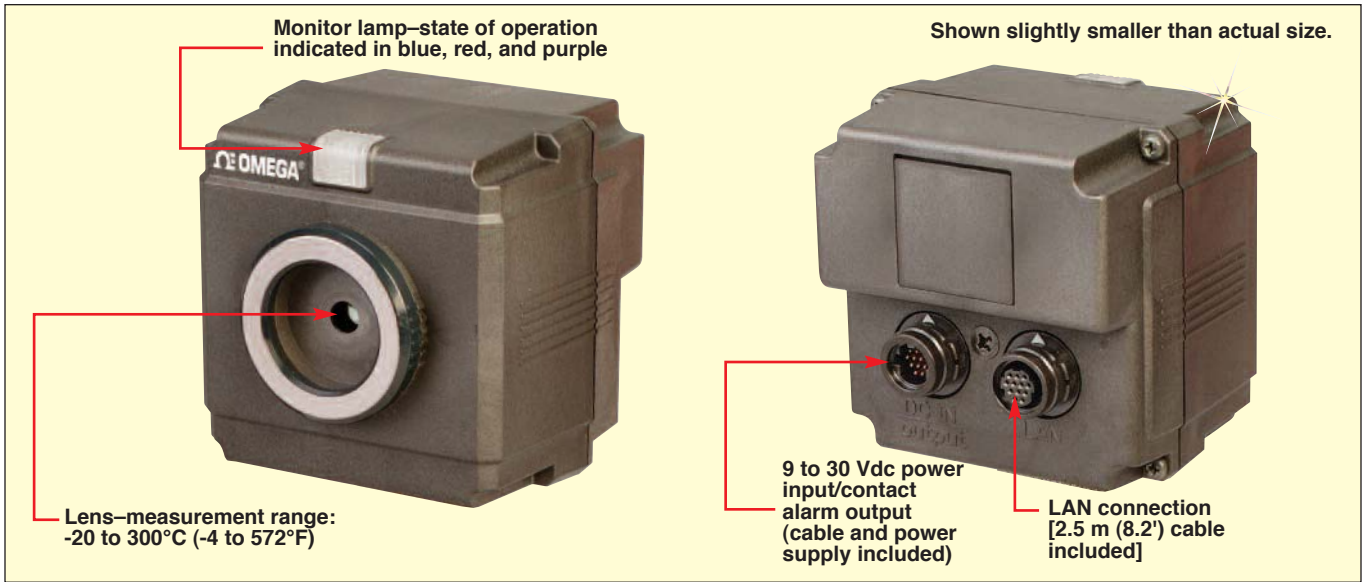


Thermal image PC screen of 4 sensors (maximum) connected.



Thermal image PC screen of 1 sensor connected.

Thermal Imager



Functions

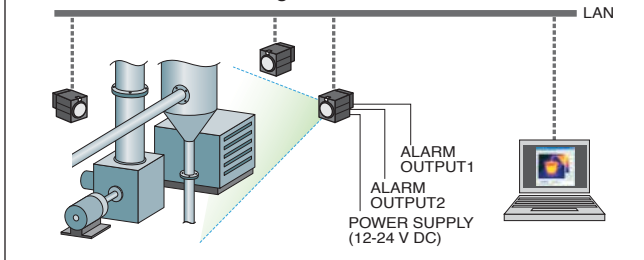
Monitoring Mode

The temperature data is outputted continuously by a command from the PC

Monitor Mode

Multiple Unit Connection (LAN)

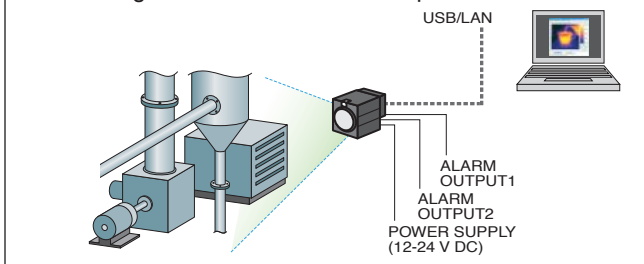
- ✓ Up to 4 sensors can be connected
- ✓ Monitoring and alarm outputs from sensor can be used together



Monitor Mode

Single Unit Usage

- ✓ Single unit can monitor 1 area and has 2 alarm outputs
- ✓ When alarm goes on, the unit stores 1 image to the memory
- ✓ Image saving updates every occurrence of alarm
- ✓ Reading the data from host PC is possible



Capturing Mode

The temperature data is outputted row-by-row horizontally by a command from PLC, etc.

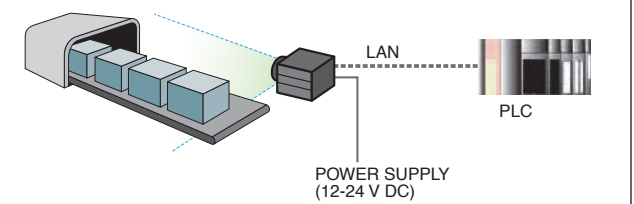
Connectivity

Up to 4 sensors can be connected to a PC via LAN and viewer software allows you to monitor thermal images, measuring temperature and alarms.

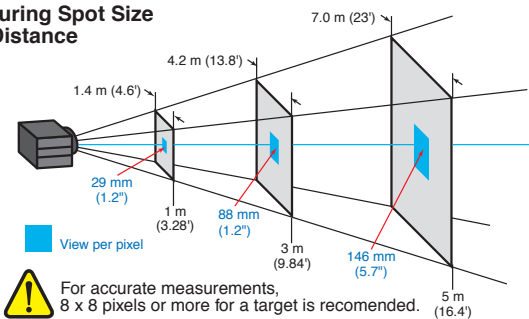
Capturing Mode

PLC Connection

- ✓ The temperature data is outputted row-by-row horizontally by a command from PLC, etc



Measuring Spot Size and Distance



Distance	1 m (3.28')	3 m (9.84')	5 m (16.4')
Width m (ft)	1.4 (4.6)	4.2 (13.8)	7.0 (23)
Width/Pix mm (in)	29 (1.2)	88 (3.5)	146 (5.7)



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Application Software

Requirements

OS: Windows® 2000 (SP4 or later)/ XP/Vista (Windows XP or later recommended)

NET Framework 2.0 or later (required)

Memory

Windows 2000/XP: 1 GB recommended (512 MB or more)

Windows Vista: 2 GB or more recommended

CPU

Windows 2000/XP: 1.5 GHz or faster recommended

Windows Vista: 2 GHz or faster recommended

Basic Function

When the LAN settings are completed correctly between a PC and the thermal image sensor and the LAN communication is established, thermal image screen will appear. The thermal images up to 4 sensors can be displayed with this application software, and the simultaneous display for 4 images and the individual display for each sensor can be switched.

Various Settings of Sensor

LAN settings/alarm settings of the sensors/emissivity setting

Data Storage

Image temperature data storage (temperature data/csv for 2256 pixels)/ Thermal image screen storage (JPEG)

Image Processing

Screen averaging/spatial smoothing/ median filter/rotation/maximum and minimum values indications

Trend Graph

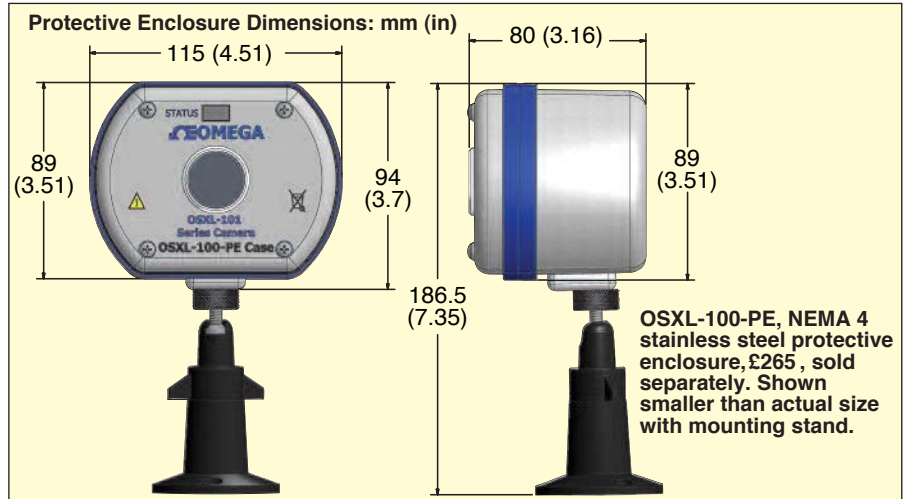
By specifying a graph area, data can be displayed by the trend graph and the graph data can be stored by setting. (max 8 areas)

Alarm Settings by the Application Software

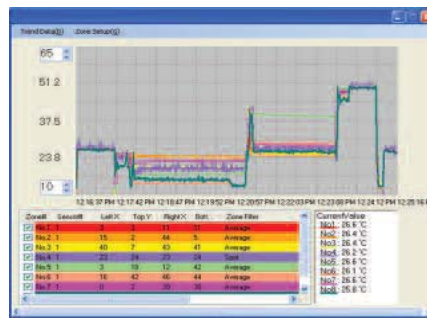
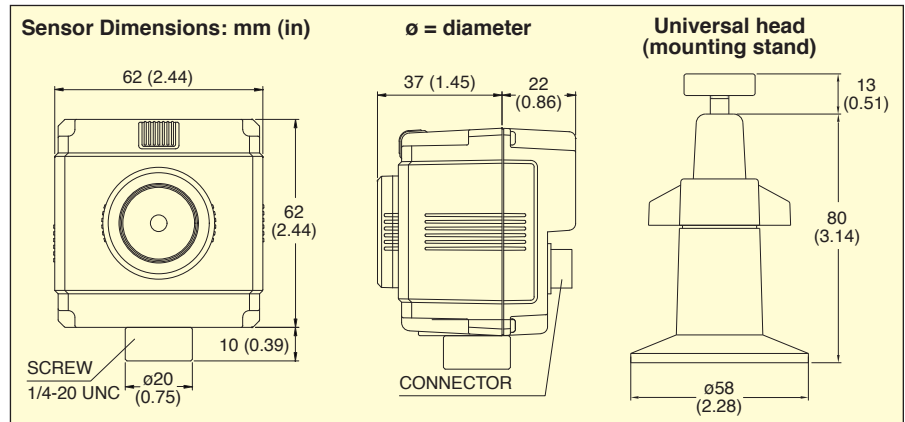
- By specifying a zone, alarms can be set (max 8 areas)
- The zone alarm as set in the application software are separate and in addition to alarms set in the sensor



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



OSXL-100-PE, NEMA 4 stainless steel protective enclosure, £265 , sold separately. Shown smaller than actual size with mounting stand.



Trend Graph



Alarm Screening

Note: The alarm of the sensor is interlocked with the contact output, but the contact output cannot be activated with the alarm by the application software.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
OSXL-101	£1335	Fixed mount thermal imager
OSXL-100-PE	265	NEMA 4 stainless steel protective enclosure
OSXL-100-LAN	54	Replacement LAN cable, 2.5 m (8.2')
OSXL-100-PAC	80	Replacement power/alarm cable, 2.5 m (8.2')
OSXL-100-MOUNT	27	Replacement mounting stand
OSXL-100-PS	67	Replacement power supply with 2.5 m (8.2') cable

Comes complete with operator's manual, software CD, mounting stand, power supply, LAN cable, power/alarm cable, mounting screws and plugs, and connector caps.

Ordering Examples: OSXL-101, thermal imager, £1335.

OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years (£235), £1335 + 250 = £1820.

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