Handheld Infrared Thermometers
With Optional Laser Sighting

OMEGASCOPE®
OS520 Series

Shown smaller than actual size

**OMEGASCOPE®
OS522 with
Standard Laser
Sight, $1045**

Rugged, High Performance Design

- ✔ **Models Available with Temperature Ranges to 870°C (1600°F)**
- ✔ **Emissivity Adjustable from 0.1 to 1.00 in 0.01 steps**
- ✔ **Backlit LCD Display**
- ✔ **Dual Digital Display Indicates Current with Min, Max, Average or Difference Temperatures**
- ✔ **°C/°F Selectable**
- ✔ **1 mV/Degree Analog Output Standard**
- ✔ **RS-232 Output Available**
- ✔ **Ambient Target Temperature Compensation**
- ✔ **Audible and Visible Alarm**
- ✔ **Integral Tripod Mount**
- ✔ **Electronic Trigger Lock**
- ✔ **Last Temperature Recall**

With a combination of powerful features, the new portable and rugged OS520 series infrared thermometers offer solutions for many non-contact temperature measurement applications. Emissivity adjustable in 0.01 increments, provides versatility when measuring a variety of surfaces. A custom backlit LCD display provides dual digital display of both current and max or min temperatures simultaneously. This provides the user with more information at a glance. The OS520 also features a high alarm setpoint, providing both audible and visual indication of the alarm status. The standard 1 mV per degree analog output allows interfacing with data acquisition equipment, including chart recorders, dataloggers and computers.

Specifications

Repeatability: ±(1% rdg + 1 digit)
Resolution: 1°C or 1°F
Response Time: 250 msec
Spectral Response: 8 to 14 μ
Emissivity: 0.10 to 1.00 in 0.01 increments
Operating Ambient: 0 to 50°C (32 to 122°F)
Power: 4 'AA' batteries or ac adaptor
Battery Life: 60 hr, alkaline; 10 days, lithium
Analog Output: 1 mV/°C or 1 mV/°F
Tripod Mount: ¼"-20 UNC
Display: Backlit LCD; displays current and min or max, differential, average temperatures simultaneously
Alarm: High alarm standard, with audible and visual indication
RS-232: one way communication

OMEGACARE℠ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order.

We make running changes when technical advances allow. Check at time of ordering for additional features.

Laser Sight Specifications

Wavelength (color): 670 nm (red)

Operating Distance:
  Laser Dot: 2-75 ft.
  Laser Circle: 2-25 ft.

FDA Classification: Class IIIa
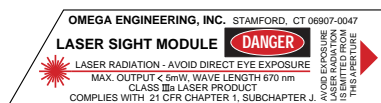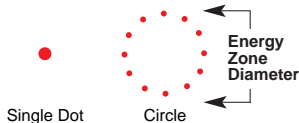
Safety Classification: Class 3A

Beam Diameter: 5mm

Operating Temperature: 0 to 50°C

Laser Sight Model Configurations

Energy Zone Diameter

Single Dot   Circle

OMEGA ENGINEERING, INC. STAMFORD, CT 06907-0047
LASER SIGHT MODULE **DANGER**
LASER RADIATION - AVOID DIRECT EYE EXPOSURE
MAX. OUTPUT <5mW, WAVE LENGTH 670 nm
CLASS IIIa LASER PRODUCT
COMPLIES WITH 21 CFR CHAPTER 1, SUBCHAPTER J.
AVOID EXPOSURE LASER RADIATION IS EMITTED FROM THIS APERTURE

OMEGA CE
LASER RADIATION DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. MAX. OUTPUT<5mW, WAVE LENGTH 670nm, CLASS 3A LASER PRODUCT CONFORMS TO IEC825-1:1993

MONOGRAM SERIES

A Backlit LCD Display
B High Alarm Icon
C Emissivity Setting
D Backlight Icon
E °C or °F Units
F Temperature Reading
G Function Key/Scrolling
H ▼ for decrememting data; °F-°C for changing units of measure
I Locks the trigger/ Enables/Disables Alarm
J ▲ for incrememting data; ◯-● for turning on/off the backlight

Laser Sight Modules

Model No.	Laser Dot	Laser Circle
Price		
OS520E	LS-120	LS-720
OS521	LS-120	LS-721
OS522	LS-120	LS-722

Accessories

Model No.	Description	Price
OS520-ADAPTER-110V	110 Vac adaptor	
OS520-ADAPTER-220V	220 Vac adaptor	
OS520-RCC	Hard Carrying Case	
CAL-3-IR	NIST Calibration	

To Order *(Specify Model Number)*

Model Number	OS520L	OS521	OS522
Accuracy*	±1% rdg	±1% rdg	±1% rdg
Range	-18 to 540°C 0 to 1000°F	-18 to 540°C 0 to 1000°F	-18 to 871°C 0 to 1600°F
Emissivity	adjustable	adjustable	adjustable
Backlit Dual Display	std	std	std
Distance to Spot Size Ratio	10:1	20:1	30:1
Differential Temperature	std	std	std
Min/Max Temperature	std	std	std
Average Temperature	std	std	std
High Alarm	std	std	std
Low Alarm	—	std	std
Audible Buzzer & Indicator	std	std	std
Ambient Target Temp. Comp.	—	std	std
Analog Output	1 mV/deg	1 mV/deg	1 mV/deg
RS-232 Output	—	std	std
Printer Output	—	std	std
Data Storage	—	—	std
Laser Sight	std (LS-120)	optional	std (LS-722)
Trigger Lock	std	std	std
Last Temperature Recall	std	std	std

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DISTANCE: SENSOR TO OBJECT (FT)
OS520L
D:S = 10:1
*SPOT DIAMETER MEASURED AT 90% ENERGY
DISTANCE: SENSOR TO OBJECT (CM)

DISTANCE: SENSOR TO OBJECT (FT)
OS521
D:S = 20:1
*SPOT DIAMETER MEASURED AT 90% ENERGY
DISTANCE: SENSOR TO OBJECT (CM)

DISTANCE: SENSOR TO OBJECT (FT)
OS522
D:S = 30:1
*SPOT DIAMETER MEASURED AT 90% ENERGY
DISTANCE: SENSOR TO OBJECT (CM)

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