

Handheld Infrared Thermometers

With Optional Laser Sighting

OMEGASCOPE®
OS520 Series

\$295

Basic Unit

YEAR
2000
COMPLIANT

Shown smaller
than actual size



OMEGASCOPE®
OS522 with
Standard Laser
Sight, \$1045

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.

OMEGA
CARESM
Extended Warranty
Program



2 YEAR
WARRANTY

MADE IN
USA

- ### 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

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

OMEGACARESM 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.

PATENT NOTICE

This product may be protected by one or more of the following patents:

U.S. PAT. D357,194, B5,368,392, 5,524,984, 5,727,880,
5,465,838, 5,823,678, 5,823,679/Canada
75811 © OMEGA ENGINEERING, INC./
Czech Republic 25372/France
0378411 to 0378446/Germany M 94 06 478.4/Italy RM940000913/Japan
988,378/Netherlands 25009-00/Spain mod. ut. 133292/Slovak Republic
24565/U.K. Registered 2041153

Other U.S. and Foreign Patents Pending.

Laser Sight Specifications

Wavelength (color):
670 nm (red)

Operating Distance:

Laser Dot: 2-75 ft.

Laser Circle: 2-25 ft.

FDA Classification:

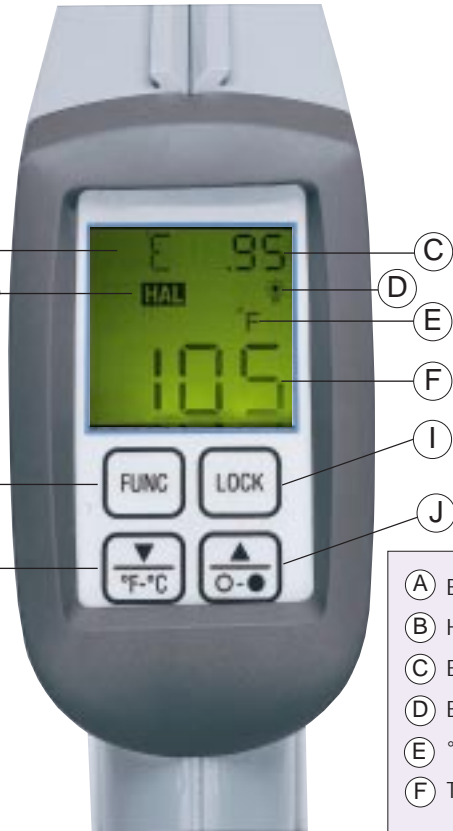
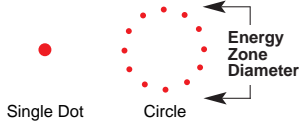
Class IIIa

Safety Classification: Class 3A

Beam Diameter: 5mm

Operating Temperature:
0 to 50°C

Laser Sight Model Configurations



- (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 decremting data; °F-°C for changing units of measure
- (I) Locks the trigger/ Enables/Disables Alarm
- (J) ▲ for incremting data; ○-● for turning on/off the backlight

Laser Sight Modules

Model No.	Laser Dot	Laser Circle
Price	\$100	\$150
OS520E	LS-120	LS-720
OS521	LS-120	LS-721
OS522	LS-120	LS-722

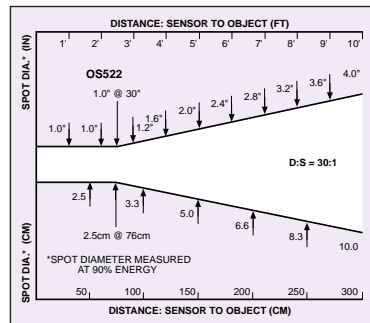
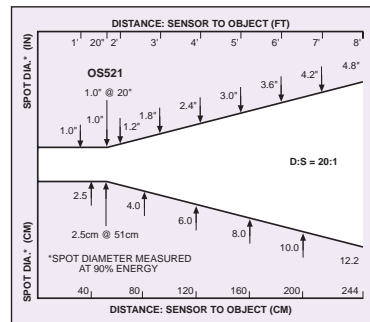
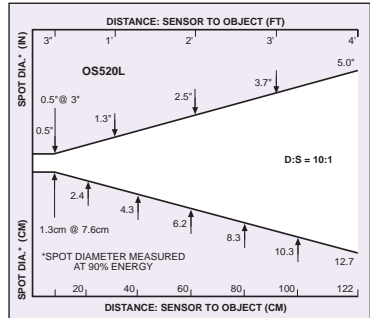
Accessories

Model No.	Description	Price
OS520-ADAPTER-110V	110 Vac adaptor	\$ 25
OS520-ADAPTER-220V	220 Vac adaptor	25
OS520-RCC	Hard Carrying Case	30
CAL-3-IR	NIST Calibration	125

To Order (Specify Model Number)

Model Number	OS520L	OS521	OS522
Price	\$295	\$695	\$1045
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

* Or 3°F, whichever is greater. **Ordering Example: OS521, infrared gun, \$695 and CAL-3-IR, NIST traceable calibration \$125, \$695 + 125 = \$820.**





UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

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Manchester, England
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• Temperature

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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters