

# High Temperature Handheld Infrared Thermometer With Optional Sighting Scope

OMEGASCOPE®  
OS523/OS524 Series.

**\$1095**  
Basic Unit



## Rugged, High Performance Design

- ✓ Models Available with Temperature Ranges to 2482°C (4500°F)
- ✓ Built-In Laser Circle to Dot Switchable™ Feature
- ✓ 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
- ✓ Ambient Target Temperature Compensation
- ✓ Audible and Visible Alarm
- ✓ Integral Tripod Mount
- ✓ Electronic Trigger Lock
- ✓ Last Temperature Recall
- ✓ Data Storage up to 100 Temperature Points

With a combination of powerful features, the portable and rugged high temperature OS523/524 series infrared thermometers offer solutions for many non-contact temperature measurement applications. Emissivity is adjustable in 0.01 increments, providing versatility when measuring a variety of surfaces. A custom backlit LCD display provides dual digital display of both current, max, min, difference or average temperatures simultaneously. This provides the user with more information at a glance. It also has standard features like high and low audible and visual alarms, 1mV/Deg analog output, RS-232 output and temperature data storage.



OMEGASCOPE® OS523-2-SC Unit with Sighting Scope, Precisely Aligned with Infrared Field of View. Has 1.5:1 Magnification, \$1195

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

Shown smaller than actual size

**FREE** datalogging software included with all models. Please visit [omega.com](http://omega.com) for software features.

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

## Specifications

**Accuracy:** ± 1% of rdg or 2°C/3.6°F, whichever is greater

**Repeatability:** ± (1% rdg + 1 digit)

**Resolution:** 1°C or 1°F

**Response Time:** 100 msec

**Spectral Response:**

OS523: 8 to 14 μ

OS524: 2 to 2.5 μ

**Emissivity:** 0.10 to 1.00 in 0.01 increments

**Operating Ambient:** 0 to 50°C (32 to 122°F)

**Power:** 4 "AA" lithium batteries (included) or optional ac adaptor

**Battery Life:** 10 days, lithium; 60 hours, alkaline

## PATENTED

Patents issued and pending on many aspects of this device including but not limited to laser circle.

**Tripod Mount:** ¼" to 20 UNC

**Display:** Backlit LCD; displays current and min or max, differential, average temperatures simultaneously

**Alarm:** High and low alarm standard, with audible and visual indication

**RS-232:** One-way communication

# MONOGRAM SERIES

## Laser Sight Specifications

Wavelength (color): 650 nm (red)

Operating Distance:

Laser Circle: 0.6 to 4.5 m (2 to 15')

Laser Dot: 0.6 to 12 m (2 to 40')

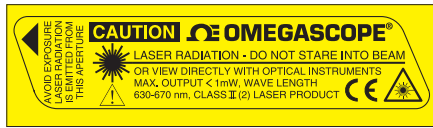
FDA Classification: Class II

European Classification: Class 2

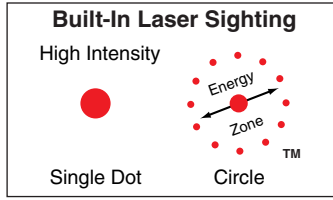
Beam Diameter: 5 mm (0.2")

Operating Temperature:

0 to 50°C (32 to 122°F)



**CAUTION!** – This product is not intended for medical use or use on humans



**PATENTED**  
Patents issued and pending on many aspects of this device including but not limited to laser circle.

### ALL MODELS AVAILABLE FOR FAST DELIVERY!

#### To Order (Specify Model Number)

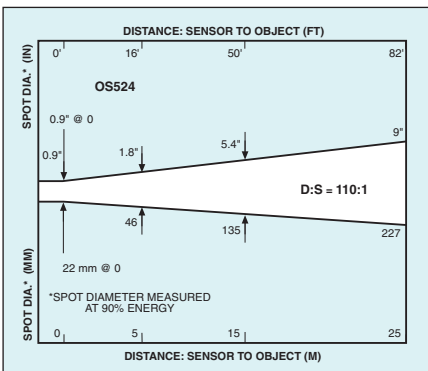
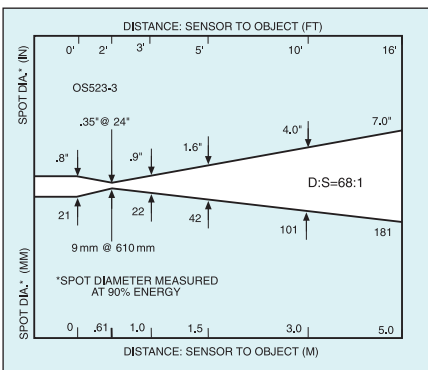
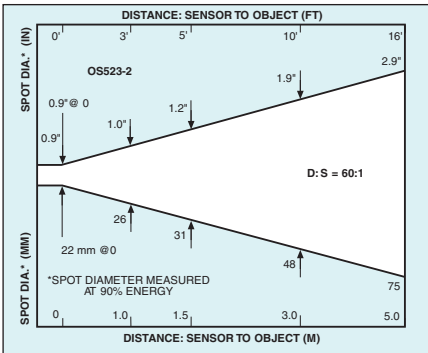
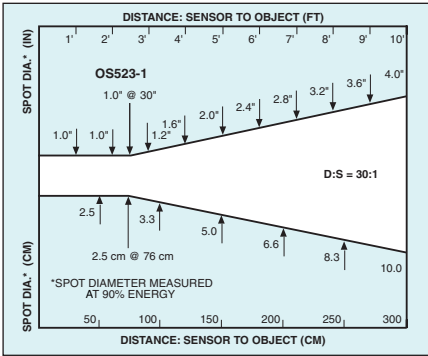
Model Number	OS523-1, -2, -3(*)	OS524(*)
Price	\$1095	\$1295
Accuracy†	±1% rdg	±1% rdg
Range	-18 to 1370°C (0 to 2500°F)	538 to 2482°C (1000 to 4500°F)
Emissivity	adjustable	adjustable
Backlit Dual Display	std	std
Distance to Spot Size Ratio	See Figure	110:1
Differential Temperature	std	std
Min/Max Temperature	std	std
Average Temperature	std	std
High Alarm	std	std
Low Alarm	std	std
Audible Buzzer & Indicator	std	std
Ambient Target Temp Comp.	std	std
Analog Output	1 mV/deg	0.5 mV/deg
RS-232 Output	std	std
Free Datalogging Software	std	std
Printer Output	std	std
Data Storage	std	std
Laser Sight-Built-in	std - dot/circle (-3, dot)	std - dot/circle
Trigger Lock	std	std
Last Temperature Recall	std	std

\*Add suffix "-SC" when ordering a thermometer with sighting scope, add \$100 to model price. Large Hard Carrying Case OS520-SC-RCC included.

† or 2°C (3.6°F), whichever is greater.

Sighting scope is factory installed and aligned, not field installable.

Ordering Example: OS523-2-SC, OMEGASCOPE® infrared thermometer with batteries, factory installed sighting scope and large, hard carrying case, \$1095 + 100 = \$1195. OCW-3 OMEGACARE™ extends standard 2-year warranty to a total of 5 years (\$298) \$1195 + 298 = \$1493.



#### Accessories (Specify Model Number)

Model Number	Price	Description
OS520-ADAPTOR-110V	\$25	110 ac adaptor
OS520-ADAPTOR-220V	25	220 ac adaptor
OS520-RCC	30	Hard carrying case (standard)
OS520-SC-RCC	30	Hard carrying case (large)
OM-3000-SC	15	Soft carrying case (spare)
CAL-3-IR	125	NIST traceable calibration
SC-520	100	Sighting scope
TRIPOD	45	Lightweight tripod with carrying case



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

### • 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