

# High Temperature Handheld Infrared Thermometer With Optional Sighting Scope

OS523/OS524 Series



## 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.



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

Shown smaller than actual size

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')

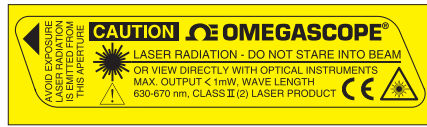
### FDA Classification: Class II

### European Classification: Class 2

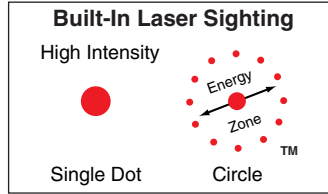
### Beam Diameter: 5 mm (0.2")

### Operating Temperature:

0 to 50°C (32 to 122°F)



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



Laser Circle to Dot Switchable™

### 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(*)
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

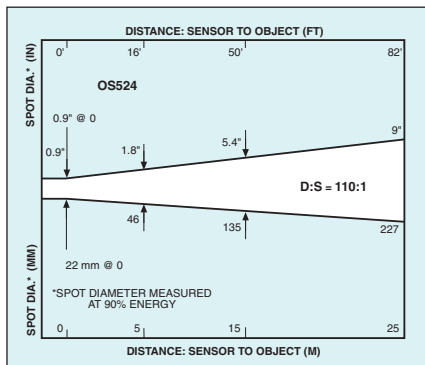
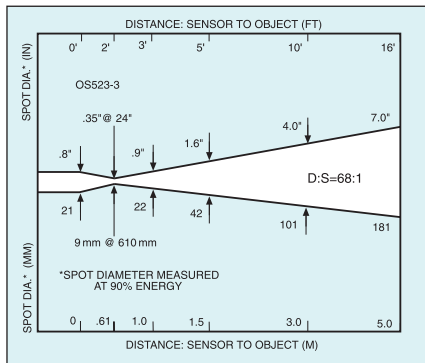
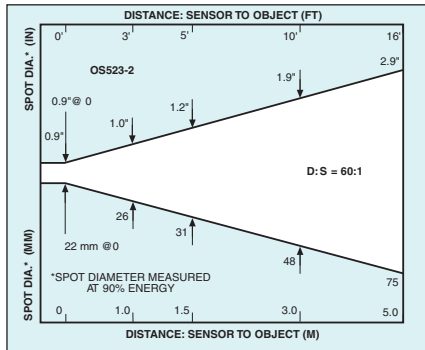
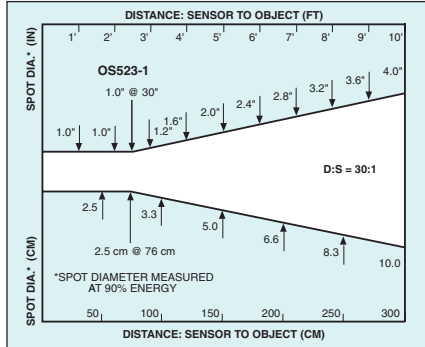
\*Add suffix “-SC” when ordering a thermometer with sighting scope

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. OCW-3



### Accessories (Specify Model Number)

Model Nu	Description
OS520-ADAPTOR-110V	110 ac adaptor
OS520-ADAPTOR-220V	220 ac adaptor
OS520-RCC	Hard carrying case (standard)
OS520-SC-RCC	Hard carrying case (large)
OM-3000-SC	Soft carrying case (spare)
CAL-3-IR	NIST traceable calibration
SC-520	Sighting scope
TRIPOD	Lightweight tripod with carrying case