

# High-Temperature Handheld Infrared Thermometer With Optional Sighting Scope and Distance Measurement

OMEGASCOPE®  
OS523E/OS524E Series

Starts at

**\$1533**



**Rugged, High-Performance Design**

Models Available with Temperature Ranges to 2482°C (4500°F)

Built-In Laser Sighting Dot/Circle Switchable

Emissivity Adjustable from 0.1 to 1.00 in 0.01 Steps

Distance-Measuring Option, Field-Mountable or Built-In [0.9 to 9 m (3 to 30') Range]

Custom LCD Indicates Current with Min, Max, Average, or Differential Temperatures °C/°F Selectable

1 mV/Degree Analog

Output Standard

(0.5 mV/Degree on OS524E)

RS232 Output with

Free Data Logging Software

Ambient Target

Temperature Compensation

Audible and Visible Alarms

Integral Tripod Mount

Electronic Trigger Lock

Last Temperature Recall

Data Storage for Up to

800 Temperature Points

Distance-Measuring

Option Available

Digital Video Camera

Included (While Supplies

Last)

With their powerful features, the portable and rugged high-temperature OS523E/524E Series infrared thermometers offer solutions for many non-contact temperature measurement applications. Their emissivity, adjustable in 0.01 increments, allows them to measure a variety of surfaces. A custom



Shown smaller than actual size.

**Technical Books Available Online!**

OMEGASCOPE® OS523E-2-SC unit with sighting scope, precisely aligned with infrared field of view. Has 2:1 magnification, \$1673.



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.

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

**PATENTED**

Covered by U.S and International patents and pending applications

backlit LCD features dual digital display of the current and max, min, difference, or average temperatures simultaneously. Standard features include high and low audible and visual alarms, 1 mV/degree analog output, RS232 output, and temperature data storage.

## Specifications

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

**Repeatability:**

±(1% rdg + 1 digit)

**Resolution:** 1°C or 1°F

**Response Time:** 100 ms

**Spectral Response:**

**OS523E:** 8 to 14 microns

**OS524E:** 2 to 2.5 microns

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

**Operating Temperature:**

0 to 50°C (32 to 122°F)

**Power:** 4 "AA" lithium batteries (2 sets included) or optional AC adaptor

**Battery Life:** 14 days, lithium;

80 hours, alkaline

**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

**RS232:** 2-way communications

**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

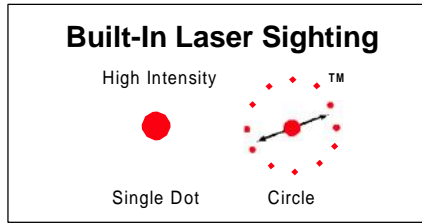
Beam Diameter: 5 mm (0.2")

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™

DV-CAM, shown smaller than actual size.



Covered by U.S. and International patents and pending applications

ALL MODELS AVAILABLE FOR FAST DELIVERY!

**To Order (Specify Model Number)**

Model No.	OS523E-1, -2, -3(*)	OS524E(*)
Price	\$1533	\$1813
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 and Indicator	Std	Std
Ambient Target Temp Comp.	Std	Std
Analogue Output	1 mV/deg	0.5 mV/deg
RS232 Output	Std	Std
Free Data Logging Software	Std	Std
Distance Measurement	Optional	Optional
Data Logging	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 "-SC" for thermometer with sighting scope and add \$140 to price. Large, hard carrying case OS520-SC-RCC included. Add "-DM" for built-in distance measurement and add \$105 to price.

† Or 2°C (36°F), whichever is greater.

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

Ordering Example: OS523E-2-SC, OMEGASCOPE® infrared thermometer with batteries, factory-installed sighting scope, and large, hard carrying case, \$1533 + 140 = \$1673.

OCW-3, OMEGACARE™ extends standard 2-year warranty to a total of 5 years (\$418), \$1673 + 418 = \$2091.

**Accessories**

Model No.	Price	Description
UNIV-AC-100/240	\$35	Universal 9V adaptor
HH-DM	105	Distance meter (3' to 30')
OS520-RCC	42	Hard carrying case (standard)
OS520-SC-RCC	42	Hard carrying case (large)
OM-3000-SC	21	Soft carrying case (spare)
CAL-3-IR-X	245	NIST-traceable calibration
SC-520 <sup>a</sup>	140	Sighting scope
TRIPOD	63	Lightweight tripod with carrying case
OM-CONV-USB	21	RS232 to USB cable
WRS232-USB	223	Wireless RS232 transmitter/receiver

