High-Temperature Handheld High-Performance Infrared

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

OMEGASCOPE® OS523E/OS524E Series

Thermometer



Distance Measuring Option Available

OMEGASCOPE® OS523E-2-SC unit with sighting scope, precisely aligned with infrared field of view, with 1.5:1 magnification.

> Shown smaller than actual size.



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

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

features.

✓ High Performance Rugged Design

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 (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**

Free Windows data logging PC application software (laptop not included).

With their powerful features, the portable and rugged high-temperature OŠ523E/524E Series infrared thermometers offer solutions for many noncontact temperature measurement applications. Their emissivity, adjustable in 0.01 increments, allows them to measure a variety of surfaces. A custom 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.

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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

Dimensions:

Without Sighting Scope:

218 H x 168 D x 51 mm W (8.6 x 6.6 x 2")

With Sighting Scope:

218 H x 218 D x 51 mm W (8.6 x 8.6 x 2")

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: 1/4 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

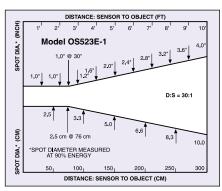
⚠ MONOGRAM®

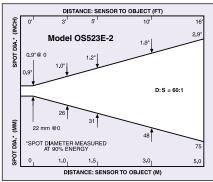
Laser Sight Specifications Wavelength (Color): 650 nm (red)

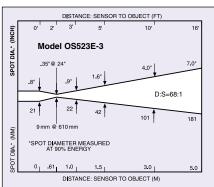
Operating Distance:

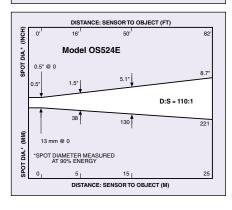
Laser Circle: 0.6 to 4.5 m (2 to 15') **Laser Dot:** 0.6 to 12 m (2 to 40') FDA Classification: Class II **European Classification:** Class 2 Beam Diameter: 5 mm (0.2") Operating Temperature: 0 to 50°C

(32 to 122°F)



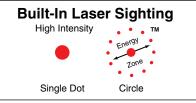








CAUTION! - This product is not intended for medical use or use on humans



Laser Circle to Dot Switchable

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To Order Visit omega.com/os523e_os524e for Pricing and Details		
Model No.	OS523E-1, -2, -3(*)	OS524E(*)
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	Standard	Standard
Distance to Spot Size Ratio	See Figure	110:1
Differential Temperature	Standard	Standard
Min/Max Temperature	Standard	Standard
Average Temperature	Standard	Standard
High Alarm	Standard	Standard
Low Alarm	Standard	Standard
Audible Buzzer and Indicator	Standard	Standard
Ambient Target Temp Comp.	Standard	Standard
Analog Output	1 mV/deg	0.5 mV/deg
RS232 Output	Standard	Standard
Free Data Logging Software	Standard	Standard
Distance	Optional	Optional
Data Logging	Standard	Standard
Data Storage	Standard	Standard
Laser Sight (Built-In)	Standard dot/circle (-3, dot)	Standard dot/circle
Trigger Lock	Standard	Standard
Last Temperature Recall	Standard	Standard

All units come complete with mini-tripod, 4 "AA" size lithium batteries, software CD, analog cable, RS232 cable, soft carrying case and operator's manual.

* Add "-SC" for thermometer with sighting scope for additional cost, includes large hard carrying case OS520-SC-RCC. Add "-DM" for built-in distance measurement for additional cost. † Or 2°C (0°F), whichever is greater.

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

Ordering Examples: OS523E-2-SC, OMEGASCOPE® infrared thermometer with batteries, factory-installed sighting scope, and large, hard carrying case.

OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years.

Accessories

Model No.	Description
UNIV-AC-100/240	Universal 9V adaptor
HH-DM	Distance meter (3' to 30')
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
MINI-TRIPOD	Replacement mini-tripod expands from 142 to 279 mm (5.6 to 11")
WRS232-USB	Wireless RS232 transmitter/receiver
OM-CONV-USB	RS232 to USB cable