

OMEGASCOPE® Handheld High-Performance Infrared Thermometer

Loaded with Features - New Distance Measurement Option Available!

Also Available with Wireless Communications

DISCONTINUED

OS533E-DM



Optional



BUILT-IN DISTANCE MEASURING OPTION AVAILABLE

DISCONTINUED



Portable mini-tripod included.

PATENTED

FREE DATA LOGGING SOFTWARE INCLUDED

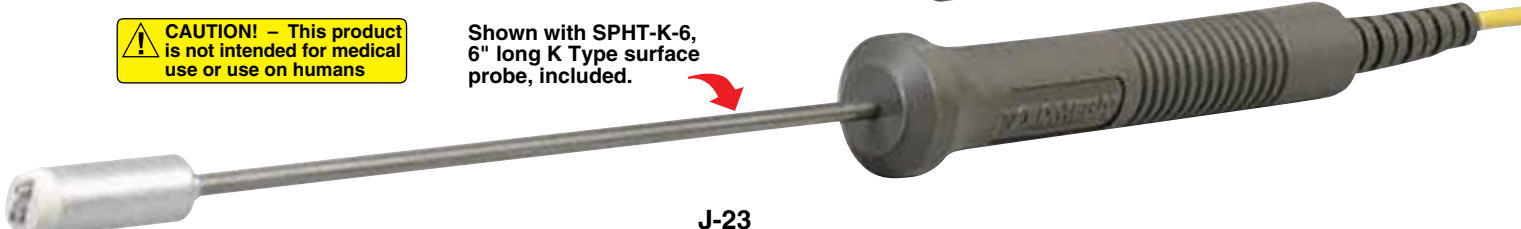
Retractable cable expands to 1.2 m (4').

4 "AA" lithium batteries included.

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

Shown with SPHT-K-6, 6" long K Type surface probe, included.

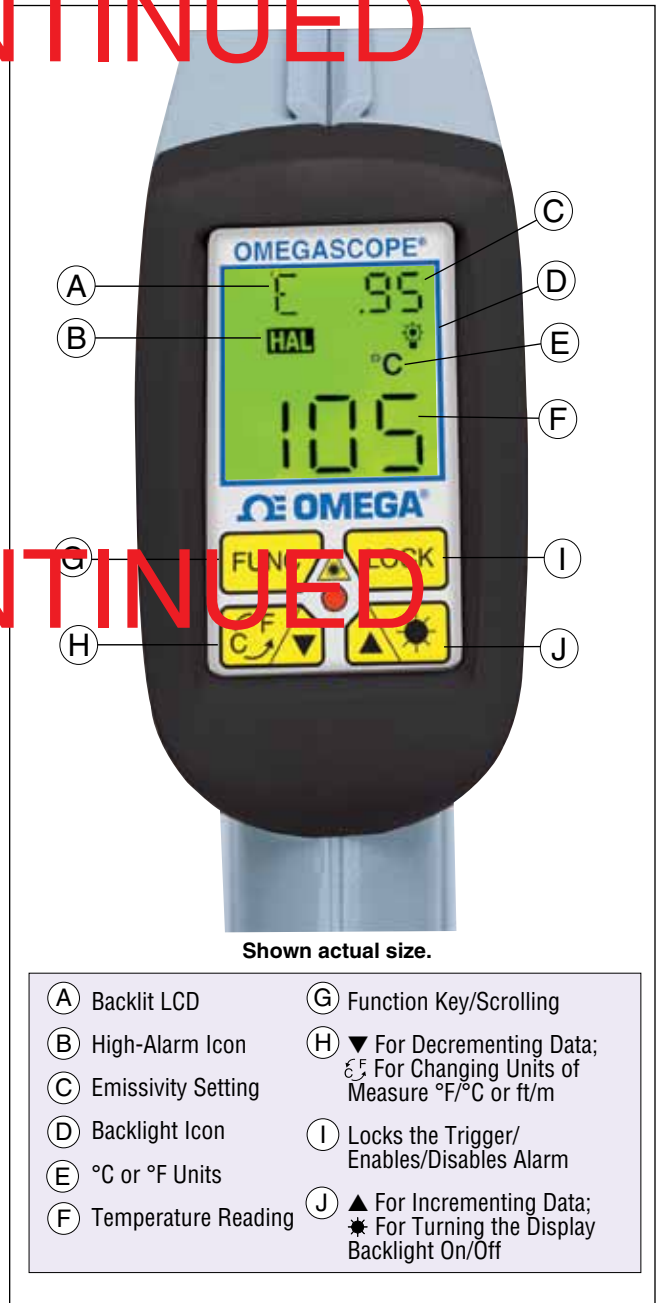


OMEGASCOPE®

Unmatched Performance, Features and Value

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- ✓ Rugged, High-Performance Design
- ✓ Built-In Patented Laser Sighting is Switchable Between Laser Dot and Circle Patterns
- ✓ The Laser Can be Flashing or Continuous
- ✓ New Series Includes High-Performance, General Purpose, Close-Focus, and High-Resolution Models
- ✓ Models Available with Temperature Ranges from -23 to 871°C (-10 to 1600°F)
- ✓ Emissivity Adjustable from 0.1 to 1.00 in 0.01 Steps
- ✓ Models OS532E, OS533E, OS534E Come with 6" Long Type K Surface Probe
- ✓ Distance Measuring Option— Either Field Mountable or Built-In [0.9 and 9 m (3 and 30') Range]
- ✓ Backlit LCD
- ✓ Dual Digital Display Indicates Current Temperature as well as Min, Max, Average, or Differential Temperatures
- ✓ °C/°F Switchable
- ✓ 1 mV/Degree Analog Output Standard
- ✓ RS232 Output Models Include **FREE** Windows® Based Data Logging Software
- ✓ Audible and Visible Alarms
- ✓ Integral Tripod Mount
- ✓ Type K Thermocouple Input Available
- ✓ Temperature Data Storage Available on OS534E (up to 800 Data Points)
- ✓ Electronic Trigger Lock
- ✓ Last Temperature Recall
- ✓ All Models Include Built-In Laser Sighting, Display and Lens Protective Bumpers, Wrist Strap, Soft Carrying Case, 4 "AA" Lithium Batteries, Portable Mini-Tripod and User's Manual with Emissivity Reference Chart
- ✓ Wireless RS232 Communication Available



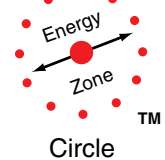
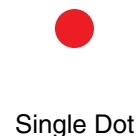
DISCONTINUED

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Laser Circle to Dot Switchable

Built-in Laser Sighting

High Intensity



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

HH-DM field installable distance measuring meter easily mounts on top of an OS530 unit and measures distance from (3 to 30'). Also available as a built-in feature on OS530-DM models.



Optional HH-DM field-installable distance measuring meter (sold separately) and lightweight mini-tripod (included). Shown smaller than actual size.

Specifications

Repeatability: $\pm(1\% \text{ rdg} + 1 \text{ digit})$
Resolution: 1°C or 1°F (0.1°C or $^\circ\text{F}$ on OS530HRE)
Response Time: 100 ms
Spectral Response: 8 to 14 microns
Emissivity: 0.10 to 1.00 in 0.01 increments
Ambient Temperature Range: 0 to 50°C (32 to 122°F)
Power: 4 "AA" lithium batteries (included) or optional AC adaptor
Battery Life: 80-hr, alkaline; 14 days, lithium (without laser sighting)
Analog Output: $1 \text{ mV}/^\circ\text{C}$ or $1 \text{ mV}/^\circ\text{F}$
Tripod Mount: $\frac{1}{4}$ " to 20 UNC
Display: Backlit LCD; displays current and min or max, differential, average temperatures simultaneously

Dimensions:

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

Alarm: High alarm standard, with audible and visible indication

RS232: Two-way communication

Laser Sight Specifications

Wavelength (Color): 650 nm (red)

Operating Distance:

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

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

Laser Power Output: $<1 \text{ mW}$

FDA Classification: Class II

European Classification: Class 2

Beam Diameter: 5 mm

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

Basic Models

To Order								
Model No.	OS530LE	OS530HRE	OS530LE-CF	OS532E	OS533E-CF	OS533E	OS534E-CF	OS534E
Accuracy*	$\pm 1\% \text{ rdg}$	$\pm 1\% \text{ rdg}$	$\pm 1\% \text{ rdg}$	$\pm 1\% \text{ rdg}$	$\pm 1\% \text{ rdg}$	$\pm 1\% \text{ rdg}$	$\pm 1\% \text{ rdg}$	$\pm 1\% \text{ rdg}$
Range	-23 to 538°C -10 to 1000°F	-30 to 121°C -22 to 250°F	-23 to 538°C -10 to 1000°F	-23 to 538°C -10 to 1000°F	-23 to 538°C -10 to 1000°F	-23 to 538°C -10 to 1000°F	-23 to 871°C -10 to 1600°F	-23 to 871°C -10 to 1600°F
Emissivity	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Display Resolution	1°	0.1°	1°	1°	1°	1°	1°	1°
Distance to Spot Size Ratio	10:1	20:1	0.15"@6"	10:1	0.15"@6"	20:1	0.15"@6"	30:1
Differential Temperature	Std	Std	Std	Std	Std	Std	Std	Std
Min/Max Temperature	Std	Std	Std	Std	Std	Std	Std	Std
Average Temperature	Std	Std	Std	Std	Std	Std	Std	Std
High Alarm	Std	Std	Std	Std	Std	Std	Std	Std
Low Alarm	—	—	—	—	Std	Std	Std	Std
Audible Buzzer and Indicator	Std	Std	Std	Std	Std	Std	Std	Std
Ambient Target Temp Comp.	—	—	—	—	Std	Std	Std	Std
Analog Output	$1 \text{ mV}/\text{deg}$	$1 \text{ mV}/\text{deg}$	$1 \text{ mV}/\text{deg}$	$1 \text{ mV}/\text{deg}$	$1 \text{ mV}/\text{deg}$	$1 \text{ mV}/\text{deg}$	$1 \text{ mV}/\text{deg}$	$1 \text{ mV}/\text{deg}$
RS232 Output	—	—	—	—	Std	Std	Std	Std
Thermocouple Input	—	—	—	Std	Std	Std	Std	Std
Data Storage	—	—	—	—	—	—	Std	Std
Laser Sight (Built-In)	Dot/circle	Dot/circle	Dot	Dot/circle	Dot	Dot/circle	Dot	Dot/circle
Trigger Lock	Std	Std	Std	Std	Std	Std	Std	Std
Last Temperature Recall	Std	Std	Std	Std	Std	Std	Std	Std

* Or 1.7°C (3°F), whichever is greater.

Models with Built-In Distance Measurement

Model No.	OS530LE-DM	OS530HRE-DM	OS532E-DM	OS533E-DM	OS534E-DM
Other Specs	Same as basic models				

Comes complete with operator's manual, analog cable, software (RS232 models), mini-tripod, soft carrying case and 4 "AA" lithium batteries.

Ordering Examples: OS530LE, handheld infrared thermometer with built-in Laser Circle to Dot Switchable™ feature and thermocouple input, plus OCW-3, OMEGACARE™ 3-year extended warranty.

OS532E, handheld infrared thermometer with built-in Laser Circle to Dot Switchable™ feature and thermocouple input, OCW-3, OMEGACARE™ 3-year extended warranty.

OS534E-CF, close-focus handheld infrared thermometer with built-in Laser Circle to Dot Switchable™ feature, thermocouple input and RS232 output, plus OCW-3, OMEGACARE™ 3-year extended warranty.



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OS534E-DM with built-in distance measuring.

PATENTED

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



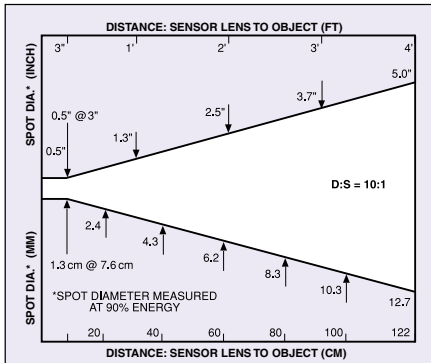
OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

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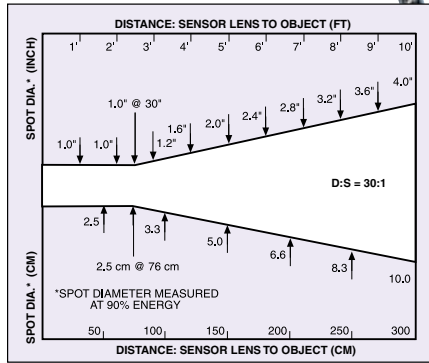


Windows data logging, PC application software (laptop not included).

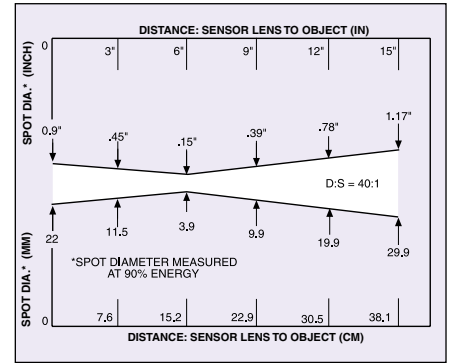
Fields of View



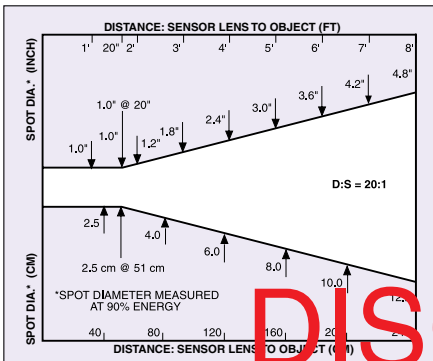
OS530LE, OS530LE-DM, OS532E and OS532E-DM



OS534E and OS534E-DM



OS53XE



OS530HRE, OS530HRE-DM, OS533E and OS533E-DM

Accessories

Model No.	Description
UNIV-AC-100/240	Universal 9V adaptor
OS520-RCC	Hard carrying case
OM-3000-SC	Spare soft carrying case
88013K	Surface probe, up to 815°C (1500°F)
88001K	Surface probe, up to 482°C (900°F)
CAL-3-IR	NIST traceable calibration
CAL-3-IR-X	NIST calibration for over 1000°F
MINI-TRIPOD	Replacement mini-tripod expands from 142 to 279 mm (5.6 to 11")
HH-DM	Distance measuring meter w/mounting bracket (3 to 30')
SPHT-K-6	Type K 6" surface probe, rated up to 650°C (1200°F)
OM-CONV-USB	RS232 to USB cable
WRS232-USB	Wireless RS232 transceiver

