OMEGASCOPE® Handheld High-Performance Infrared Thermometer
Loaded with Features

OS530E Series

Optional

Portable mini-tripod included.

FREE DATA LOGGING SOFTWARE INCLUDED

Retractable cable expands to 1.2 m (4').

Shown with SPHT-K-6, 6" long K Type surface probe included.
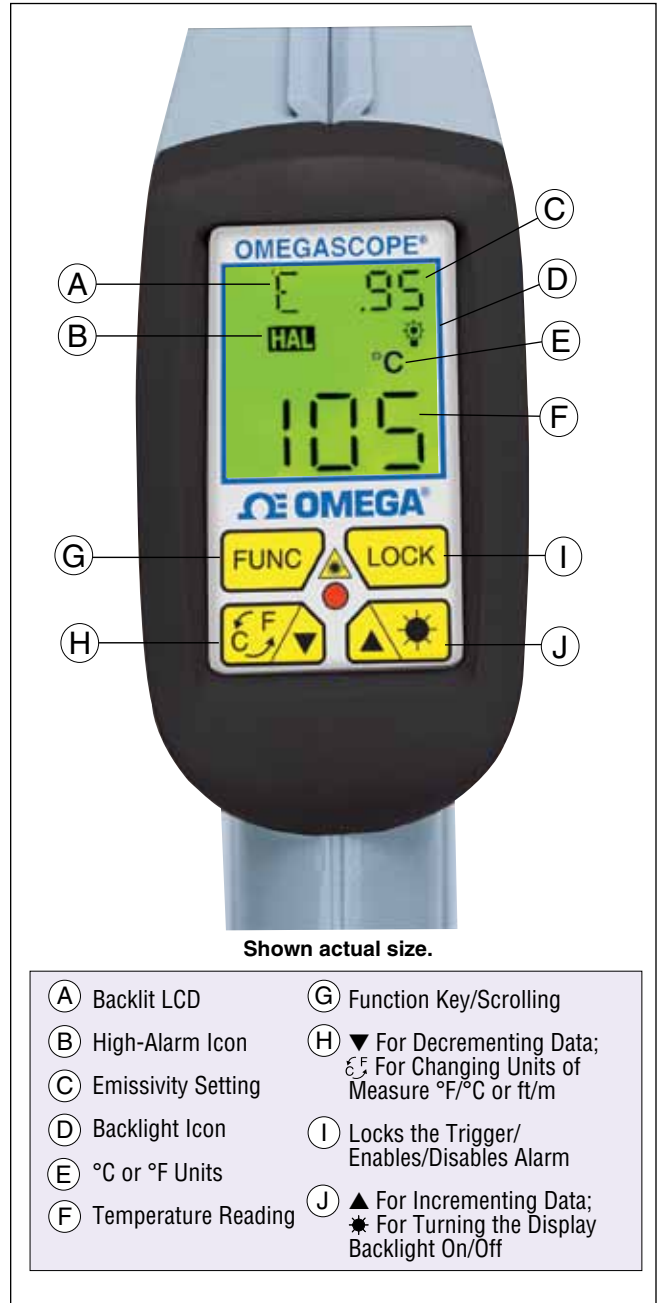
⚠ **CAUTION! – This product is not intended for medical use or use on humans**
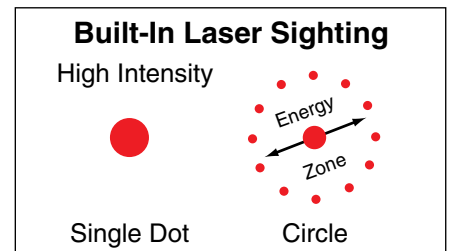
OMEGASCOPE®
Unmatched Performance, Features and Value

ΩE MONOGRAM® SERIES

- ✔ **Rugged, High-Performance Design**
- ✔ **Built-In Laser Sighting is Switchable Between Laser Dot and Circle Patterns**
- ✔ **The Laser Can be Flashing or Continuous**
- ✔ **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**
- ✔ **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**

Shown actual size.

Ⓐ Backlit LCD	Ⓖ Function Key/Scrolling
Ⓑ High-Alarm Icon	Ⓗ ▼ For Decrementing Data; ℃℉ For Changing Units of Measure °F/°C or ft/m
Ⓒ Emissivity Setting	
Ⓓ Backlight Icon	Ⓘ Locks the Trigger/ Enables/Disables Alarm
Ⓔ °C or °F Units	Ⓙ ▲ For Incrementing Data; ☀ For Turning the Display Backlight On/Off
Ⓕ Temperature Reading	

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Laser Circle to Dot Switchable

Built-In Laser Sighting

High Intensity

Single Dot   Circle

Energy
Zone

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

Specifications

Repeatability: ±(1% rdg + 1 digit)
Resolution: 1°C or 1°F (0.1°C or °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 mV/°C or 1 mV/°F
Tripod Mount: ¼" 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 mW
FDA Classification: Class II
European Classification: Class 2
Beam Diameter: 5 mm
Operating Temperature: 0 to 50°C (32 to 122°F)

Lightweight mini-tripod (included). Shown smaller than actual size.

Basic Models

To Order

Model No.	OS530LE	OS530HRE	OS530LE-CF	OS532E	OS533E-CF	OS533E	OS534E-CF	OS534E
Accuracy*	±1% rdg	±1% rdg	±1% rdg	±1% rdg	±1% rdg	±1% rdg	±1% rdg	±1% 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 mV/deg	1 mV/deg	1 mV/deg	1 mV/deg	1 mV/deg	1 mV/deg	1 mV/deg	1 mV/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.*

Comes complete with quick start manual, analog cable, PC software available for download from OMEGA (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.
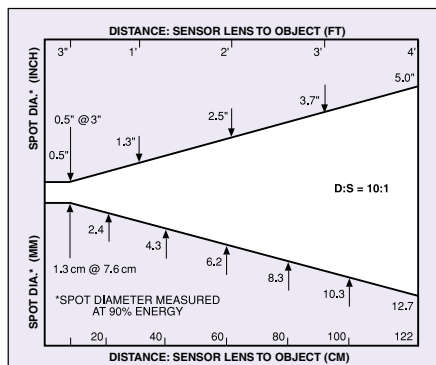
OS532E handheld infrared thermometer with built-in Laser Circle to Dot Switchable™ feature and thermocouple input, plus **OCW-3** OMEGACARE℠ 3-year extended warranty.

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.
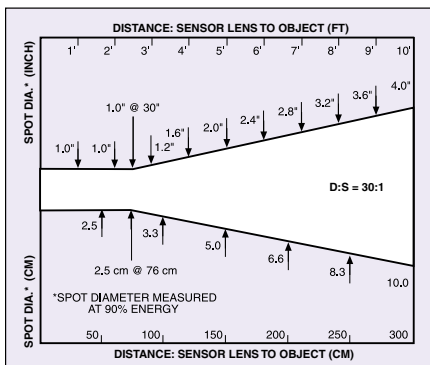
OMEGACARE^{SM} extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE^{SM} covers parts, labor and equivalent loaners.
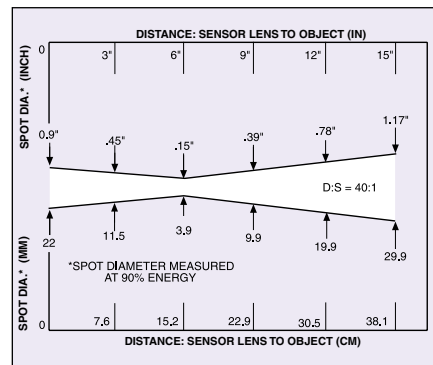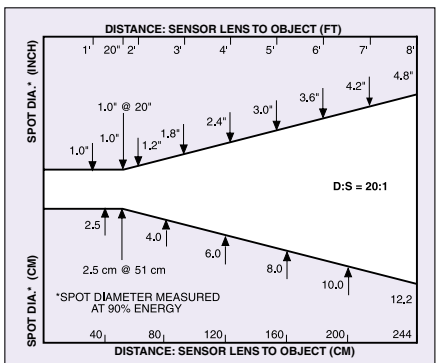
Fields of View

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

OS530LE and OS532E

OS534E

OS530LE-CF, OS533E-CF and OS534E-CF

OS530HRE and OS533E

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")
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

CAUTION **OMEGASCOPE®**
LASER RADIATION - DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS MAX. OUTPUT < 1mW, WAVE LENGTH 630-670 nm, CLASS II (2) LASER PRODUCT