OMEGASCOPE® Handheld High-Performance Infrared Thermometer
Loaded with Features

OS530E Series

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

MONOGRAM® SERIES
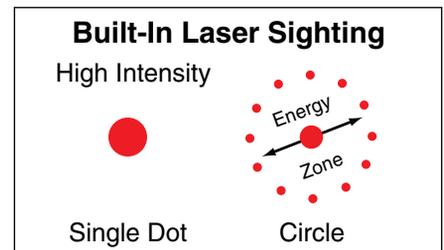
- ✔ **Rugged, High-Performance Design**
- ✔ **Built-In Laser Sighting is Switchable Between Laser Dot and Circle Patterns**
- ✔ **The Laser Can be Flashing or Continuous**
- ✔ **Includes High-Performance, General Purpose, Close-Focus, and High-Resolution Models**
- ✔ **Models Available with Temperature 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**

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Shown actual size.

Ⓐ	Backlit LCD	Ⓖ	Function Key/Scrolling
Ⓑ	High-Alarm Icon	Ⓗ	▼ For Decrementing Data; ꜛꜜ 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		

Laser Circle to Dot Switchable

Built-In Laser Sighting

High Intensity

Single Dot   Circle

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

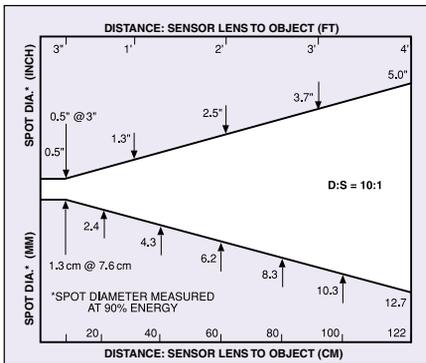| To Order				
Model No.	**OS530LE**	**OS532E**	**OS533E**	**OS534E**
Accuracy*	±1% rdg	±1% rdg	±1% rdg	±1% rdg
Range	-23 to 538°C -10 to 1000°F	-23 to 538°C -10 to 1000°F	-23 to 538°C -10 to 1000°F	-23 to 871°C -10 to 1600°F
Emissivity	Adjustable	Adjustable	Adjustable	Adjustable
Display Resolution	1°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

OS532E *handheld infrared thermometer with built-in Laser Circle to Dot Switchable™ feature and thermocouple input*

OS534E-CF *close-focus handheld infrared thermometer with built-in Laser Circle to Dot Switchable™ feature, thermocouple input and RS232 output*
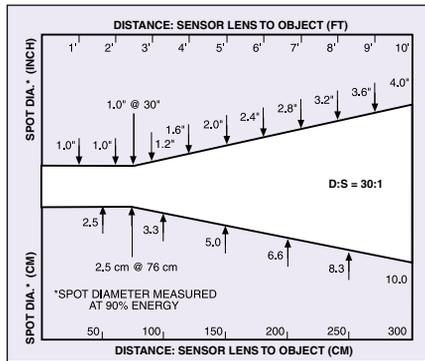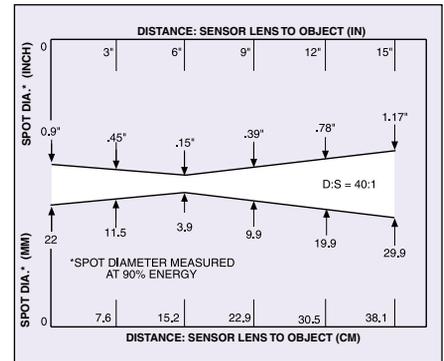
Windows data logging, PC application software (laptop not included).

Fields of View
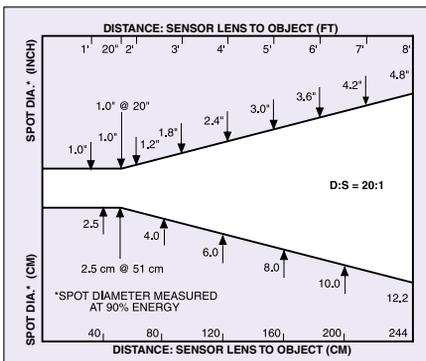

OS530LE and OS532E

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