Wireless Infrared Thermometers

Built-In Dot/Circle Switchable Laser Sighting, Thermocouple Input and Close Focus Models

DISCONTINUED

WIRELESS OMEGASCOPE® OS530E

2 YEAR WARRANTY

TM

PATENTED

DISCONTINUED

OMEGA's wireless feature allows you to monitor, record or data log temperature readings directly to your PC!

Laptop not included.

TM

Portable mini-tripod (included).

DISCONTINUED

The OS530E is a perfect toolbox companion! Check surface temperatures quickly and accurately.

OS532E-W9

305 mm (1') Retractable Cable Expands to 1.2 m (4')

SPHT-K-6 Type-K surface probe, included with all thermocouple input models.

Included FREE!

OMEGASCOPE®
Unmatched Performance, Features and Value

MONOGRAM SERIES

DISCONTINUED

- Built-In Wireless Measurement
- Rugged, High-Performance Design
- Built-In Patented 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 OS532, OS533, OS534 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 Portable Mini-Tripod, Built-In Laser Sighting, Display and Lens Protective Bumpers, Wrist Strap, Soft Carrying Case, 4 "AA" Lithium Batteries, and User's Manual with Emissivity Reference Chart

DISCONTINUED

PATENTED

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

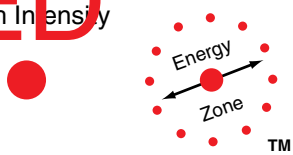
Shown actual size.

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

PATENTED

Built-In Laser Sighting

High Intensity



Laser Circle to Dot Switchable

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

OMEGACARE℠ Extended Warranty Program

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

OMEGASCOPE® Wireless Handheld Thermometer Series

DISCONTINUED

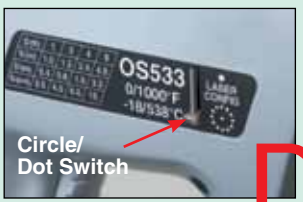
Patented Laser Switchable from Circle to Dot

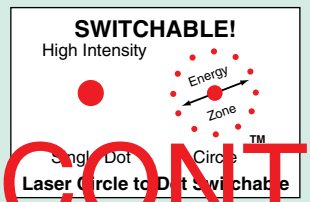
With a combination of powerful features, the portable and rugged OS530E Series infrared thermometers offer solutions for many non-contact temperature measurement applications. Emissivity adjustable in 0.01 increments, the OS530E series provides versatility when measuring a variety of surfaces.

A custom backlit LCD display provides dual digital display of both current and max, min, diff or average temperatures simultaneously. This provides the user with more information at a glance. Built-in laser sighting creates a 12-point circle which clearly indicates the target area being measured.

The OS530E also features a high alarm setpoint, providing both audible and visual indication of the alarm status. The standard 1 mV per degree analog output allows interfacing with data acquisition equipment, including chart recorders, data loggers and computers.

Standard Features





Patented Laser Sighting Switchable Between Dot and Circle Laser Pattern

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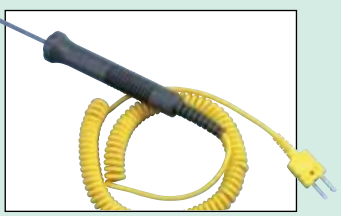
Tripod Mountable

Laser Power Switch

Analog Output
Standard on All Models



6" Long K Surface Probe Standard on OS532E, OS533E, and OS534E

Large, Backlit Display

Accessories Included

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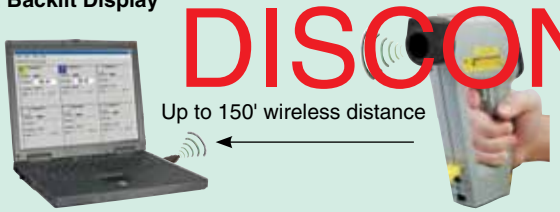
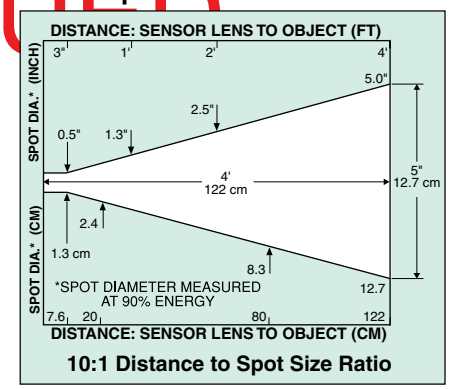


Built-In Wireless Measurement Standard on All Models*

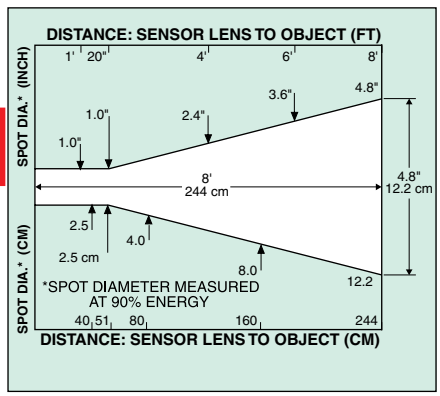
** Requires optional wireless receiver*

Optical Field of View

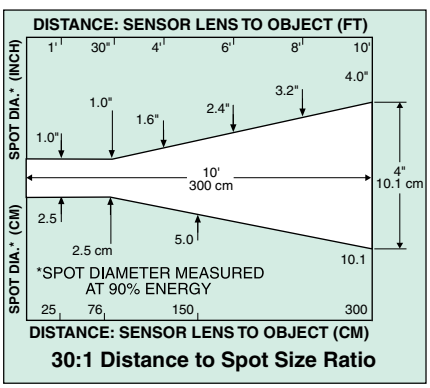


10:1 Distance to Spot Size Ratio

OS530LE, OS532E

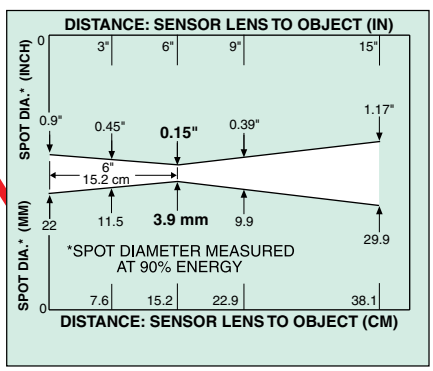


OS530HR, OS533E



30:1 Distance to Spot Size Ratio

OS534E



OS530LE-CF, OS533E-CF and OS534E-CF

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TC Central Software Included. Visit OMEGA for Details.

Laptop not included.

Monitor Up to 48 Different Wireless Instruments with One Receiver!

Specifications

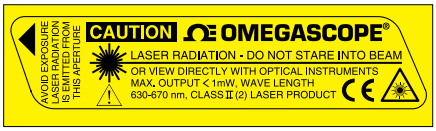
Repeatability: ±(1% rdg + 1 digit)
Resolution: 1°C or 1°F (0.1°C or °F on OS530HR)
Response Time: 250 msec
Spectral Response: 8 to 14 µ
Emissivity: 0.10 to 1.00 in 0.01 increments
Operating Ambient: 0 to 50°C (32 to 122°F)
Power: 4 "AA" alkaline batteries (2 sets included) or optional ac adaptor
Battery Life: 58 hr, alkaline; 9 days, lithium
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
Alarm: High alarm standard, with audible and visual indication
RS232: One way communication

Wireless Specifications

Measurement Accuracy: ±1.0°C (1.8°F)
Measurement Resolution: 1°C/1°F
Transmit Sample Rate: 1 sample/every 2 seconds (fixed)

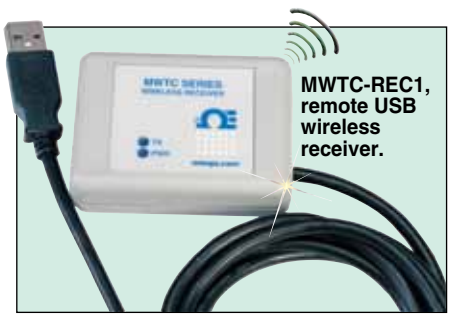
Radio Frequency: ISM 915 MHz or ISM 868 MHz
RF Output Power: 10dBm (10 mW)
Range of RF Link:
Up to 90 m (300'): Outdoor line of sight
Up to 39 m (130'): Indoor/urban
Laser Sight Specifications
Wavelength (color): 650 nm (red)
Operating Distance:
Laser Dot: 0.6 to 12 m (2 to 40')
Laser Circle: 0.6 to 4.5 m (2 to 15')
FDA Classification: Class II
European Classification: Class 2
Beam Diameter: 5 mm
Operating Temperature: 0 to 50°C (32 to 122°F)

Free Data Logging Software with RS232 Models. Windows Software Displays Data in Graphical or Tabular Format.



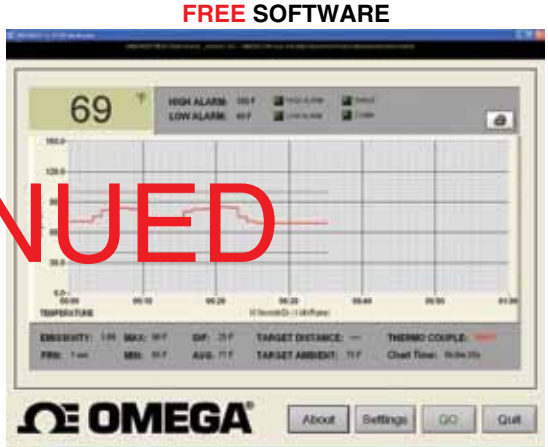
Optional Wireless Receivers

MWTC-REC5, mini USB wireless receiver, actual size.



MWTC-REC1, remote USB wireless receiver.

FREE SOFTWARE



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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

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** Or 1.7°C (3°F), whichever is greater.*
*† Insert "**W9**" for 915 MHz (USA/Canada) or "**W8**" for 868 MHz (CE models).*
All units come complete with mini-tripod, software, carrying case, output cable, 4 "AA" lithium batteries (2 sets included) and operator's manual.

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 portable mini-tripod expands from 142 to 279 mm (5.6 to 11")
SPHT-K-6	6" Type K surface probe, rated up to 650°C (1200°F)
OM-CONV-USB	RS232 to USB cable
WRS232-USB	Wireless RS232 transceiver kit
MWTC-REC5-(**)	Mini USB wireless receiver
MWTC-REC1-(**)	Remote USB wireless receiver

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*** Insert **"915"** for 915 MHz (USA/Canada) or **"868"** for 868 MHz (CE models).*

***Ordering Examples: OS530LE-W9** wireless handheld infrared thermometer (USA/Canada) with built-in Laser Circle to Dot Switchable feature plus **MWTC-REC5-915** mini USB wireless receiver (USA/Canada).*

***OS532E-W8** wireless handheld infrared thermometer (USA/Canada) with built-in Laser Circle to Dot Switchable feature and thermocouple input plus **MWTC-REC1-868** remote USB wireless receiver (Europe).*

***OS534E-CF-W9** close-focus wireless handheld infrared thermometer (USA/Canada) with built-in Laser Circle to Dot Switchable feature, thermocouple input and RS232 output plus **OCW-3** OMEGACARE℠ 3-year extended warranty, and **MWTC-REC5-915** mini USB wireless receiver (USA/Canada).*