



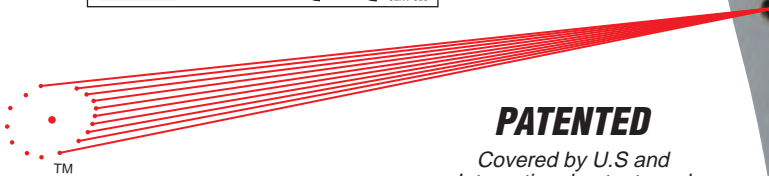
# OMEGASCOPE® Wireless Handheld Infrared Thermometer Series

Now Includes  
**FREE**  
Built-In Wireless  
Feature!

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

**WIRELESS**  
OMEGASCOPE®  
OS530E  
Starts at  
**\$295**

OS533E-W9,  
\$550.



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



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



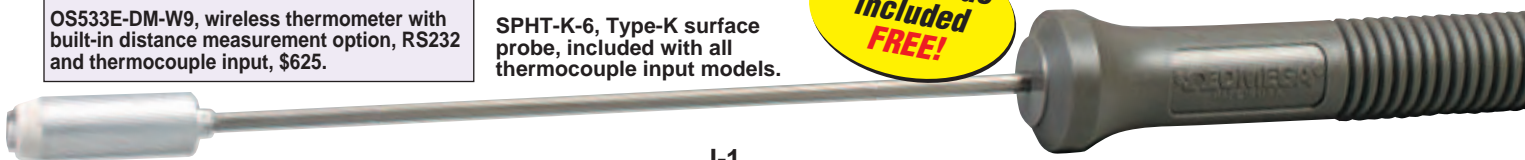
Built-in distance  
measuring  
option

OS533E-DM-W9, wireless thermometer with  
built-in distance measurement option, RS232  
and thermocouple input, \$625.

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

A \$45 value  
included  
**FREE!**

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



# OMEGASCOPE®

## Unmatched Performance, Features and Value

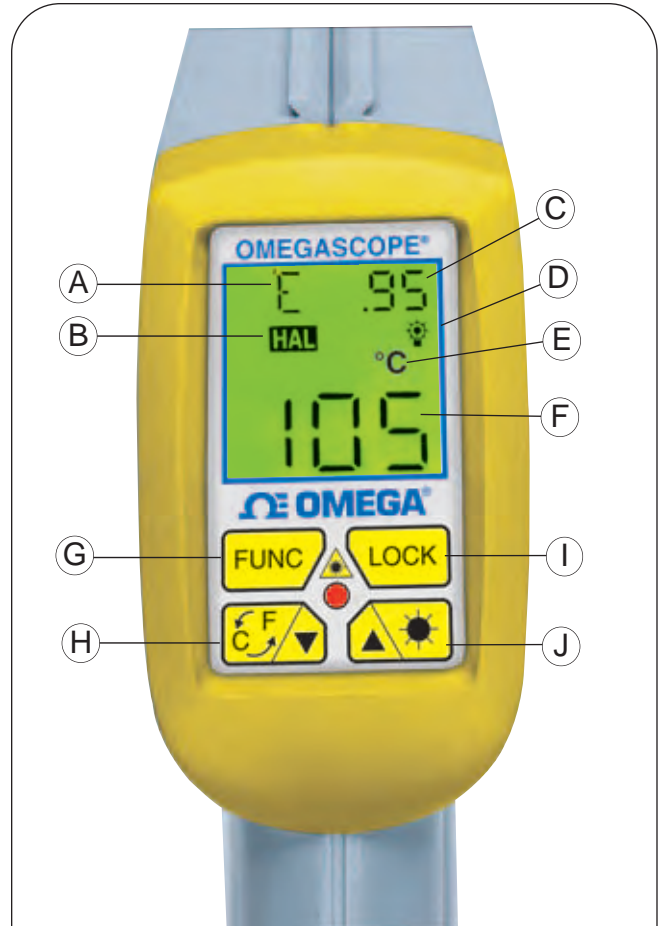
**MONOGRAM  
SERIES**



### **PATENTED**

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

- ✓ 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
- ✓ 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** Data Logging Software
- ✓ Audible and Visible Alarms
- ✓ Integral Tripod Mount
- ✓ Type K Thermocouple Input Available
- ✓ Temperature Data Storage and Logging 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, and User's Manual with Emissivity Reference Chart



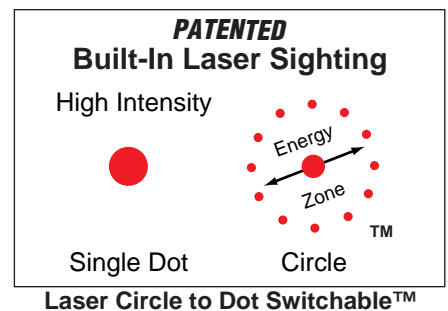
Shown actual size.

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



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

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





# OMEGASCOPE® Wireless Handheld Thermometer Series

## 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 from 1.00 to 0.10 in 0.01 increments, the OS530E series provides versatility when measuring a variety of surfaces.

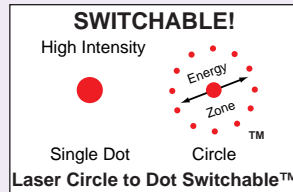
A custom backlit LCD display provides dual digital display of both current and max, min, diff or average temperatures simultaneously. This provides the user with more information at a glance. Built-in laser sighting creates a 12-point circle which clearly indicates the target area being measured.

The OS530LE 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, dataloggers and computers.

## Standard Features



Circle/  
Dot Switch



**SWITCHABLE!**  
High Intensity  
Single Dot Circle  
Laser Circle to Dot Switchable™

Patented Laser Sighting Switchable  
Between Dot and Circle Laser Pattern



Tripod Mountable



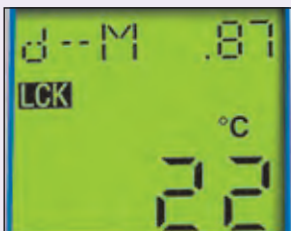
Laser Power Switch



Analog Output  
Standard on All Models



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



Large, Backlit Display



Accessories Included



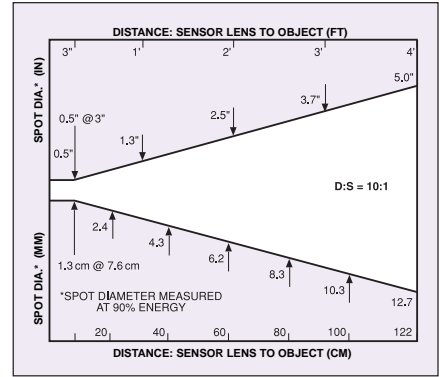
Up to 150' wireless distance



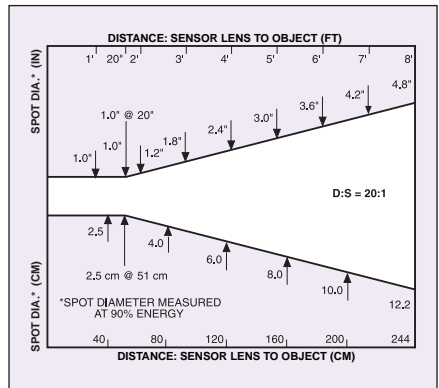
## Built-In Wireless Measurement Standard on All Models\*

\* Requires optional wireless receiver

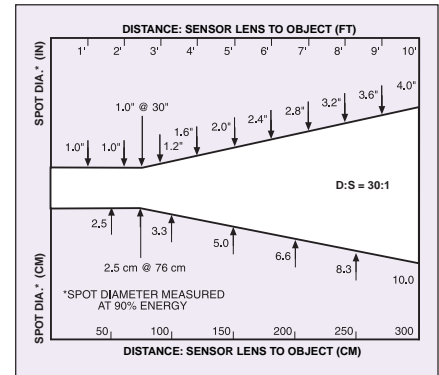
## Optical Field of View



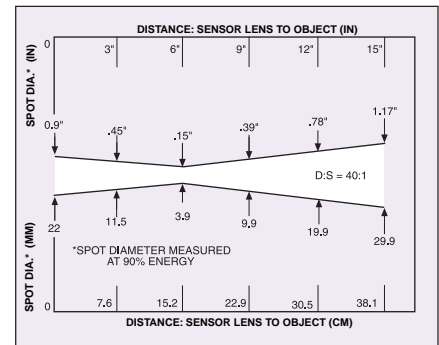
OS530LE, OS532E



OS530HRE, OS533E



OS534E



OS530LE-CF, OS533E-CF and OS534E-CF

# OMEGASCOPE® Wireless Handheld Infrared Thermometer Series



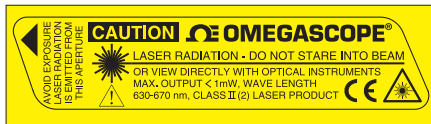
One receiver works with up to 48 Wireless instruments!



**Monitor Up to 48 Different Wireless Instruments with One Receiver!**

## Specifications

- Repeatability:**  $\pm(1\% \text{ rdg} + 1 \text{ digit})$
- Resolution:** 1°C or 1°F (0.1°C or °F on OS530HRE)
- Response Time:** 100 msec
- Spectral Response:** 8 to 14 microns
- 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:** 60 hr, alkaline; 10 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:** Two way communication



## Wireless Specifications

- Measurement Accuracy:**  $\pm 1.0^\circ\text{C}$  (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)

## Optional Wireless Receivers

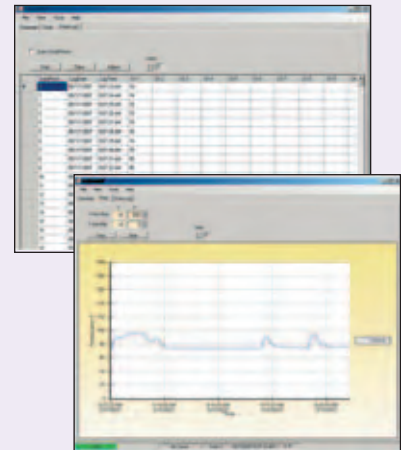


MWTC-REC5, mini USB wireless receiver, \$35.



MWTC-REC1, remote USB wireless receiver, \$116.

## FREE SOFTWARE



Each MWTC series receiver includes FREE software that turns your PC into a multi-channel temperature monitor, chart recorder and data logger.

## Wireless Connectors Only \$79



OMEGA's New MWTC Series wireless thermocouple connectors also work with the receivers and FREE software featured on this page. Visit [omega.com/MWTC\\_series](http://omega.com/MWTC_series) for complete details.

**PATENTS AND PATENTS PENDING**



HH-DM distance measuring meter sold separately, \$75.

Lightweight tripod with carrying case sold separately, \$45.



Carrying Case, Manual with Emissivity Chart, Batteries, Output Cable are Included with Every Model!



**MOST POPULAR MODELS HIGHLIGHTED!**

Visit [omega.com/gg-dm](http://omega.com/gg-dm)

To Order (Specify Model Number)		Basic Models						
Model No.	OS530LE-(†)	OS530HRE-(†)	OS530LE-CF-(†)	OS532E-(†)	OS533E-CF-(†)	OS533E-(†)	OS534E-CF-(†)	OS534E-(†)
Price	\$295	\$345	\$345	\$450	\$550	\$550	\$650	\$650
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.

† Insert "W9" for 915 MHz (USA/Canada) or "W8" for 868 MHz (CE models).

Insert "-DM" for distance measuring option and add \$75. Not offered for "-CF" models.

### Accessories

To Order (Specify Model Number)		
Model No.	Price	Description
UNIV-AC-100/240	\$25	Universal 9V adaptor
OS520-RCC	30	Hard carrying case
OM-3000-SC	15	Soft carrying case (spare)
88013K	110	Surface probe, up to 815°C (1500°F)
88001K	110	Surface probe, up to 482°C (900°F)
CAL-3-IR	125	NIST-traceable calibration
CAL-3-IR-X	175	NIST calibration for over 1000°F
TRIPOD	45	Lightweight tripod with carrying case
HH-DM	75	Distance measuring meter w/mounting bracket (3 to 30')
SPHT-K-6	45	6" Type K surface probe, rated up to 650°C (1200°F)
OM-CONV-USB	15	RS232 to USB cable
WRS232-USB	159	Wireless RS232 transceiver set
MWTC-REC5-(**)	35	Mini USB wireless receiver
MWTC-REC1-(**)	116	Remote USB wireless receiver

\*\* 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, \$295, plus MWTC-REC5-915, mini USB wireless receiver (USA/Canada), \$35, \$295 + 35 = \$330.

OS532E-W8, wireless handheld infrared thermometer (USA/Canada) with built-in Laser Circle to Dot Switchable™ feature and thermocouple input, \$450, plus MWTC-REC1-868, remote USB wireless receiver (Europe), \$116, \$450 + 116 = \$566.

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, \$650, plus OCW-3 OMEGACARE™ 3-year extended warranty, \$162, and MWTC-REC5-915, mini USB wireless receiver (USA/Canada), \$35, \$650 + 162 + 35 = \$847.



WRS232-USB Wireless RS232 transceiver optional accessory \$159, sold separately

Shown smaller than actual size.

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters