

# MEGASCOPE™ Handheld Infrared Thermometer



With Built-In Distance Measuring Option or Field Installable, Detachable Option

MEGASCOPE™ OS533RS-DM Shown

**\$725**

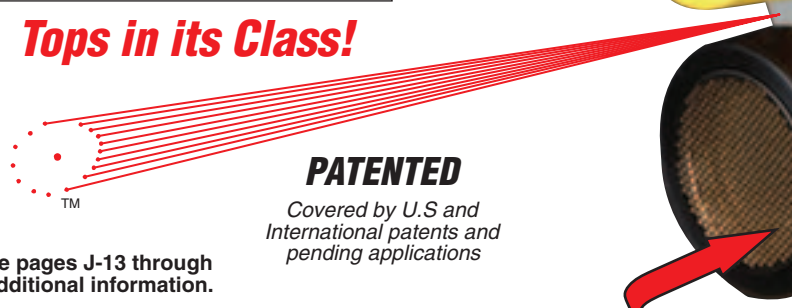
Units available for as low as \$370

Model OS533RS-DM with built-in distance measuring option, shown smaller than actual size, \$725.

For additional features and models, please consult sales or visit [omega.com](http://omega.com)



**Tops in its Class!**



**PATENTED**

Covered by U.S and International patents and pending applications

Please see pages J-13 through J-16 for additional information.

**FIELD INSTALLABLE DISTANCE MEASURING METER**

Model OS533RS, \$650, and HH-DM, \$75, field installable, distance measuring meter, shown smaller than actual size.

**BUILT-IN DISTANCE MEASURING OPTION**

Probe sold separately Model 88006, \$115



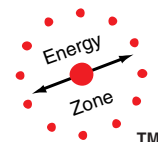
**MEASURES TEMPERATURE IN, AND DISTANCE TO THE ENERGY ZONE**

**Built-In Laser Sighting**

High Intensity



Single Dot



Circle

Laser Circle to Dot Switchable™

Model HH-DM, \$75, shown smaller than actual size.

4 "AA" Lithium batteries and/or one 9V battery included

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

To order by phone, call **1-800-82-66342**

Shop Online at [omega.com](http://omega.com)™

**FREE** datalogging software included with most models, please consult sales or visit [omega.com](http://omega.com)



## Specifications

**Repeatability:**  $\pm(1\% \text{ rdg} + 1 \text{ digit})$   
**Resolution:** 1°C or 1°F (0.1°C or °F on OS530HR-DM)  
**Response Time:** 250 msec  
**Spectral Response:** 8 to 14  $\mu$   
**Emissivity:** 0.10 to 1.00 in 0.01 increments  
**Operating Ambient:** 0 to 50°C (32 to 122°F)  
**Power:** 4 'AA' lithium batteries (included) or optional ac adaptor  
**Battery Life:** 60 hr, alkaline; 10 days, lithium  
**Analog Output:** 1 mV/°C or 1 mV/°F  
**Tripod Mount:** 1/4" 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  
**RS-232:** One way communication

## Distance Measurement Specifications

**Range:** 0.9 to 9 m (3 to 30')  
**Accuracy:** 0.5% of Rdg or 1.3 cm (0.5"), whichever is greater  
**Unit of Measurement:** Meter or feet, switchable via keypad  
**Power:**  
**HH-DM:** 9V Alkaline (included);  
**Built-In Models:** 4 'AA' lithium batteries (included) or optional ac adaptor  
**Sensor:** Ultrasonic transducer  
**HH-DM Dimensions:** 130 L x 70 W x 28.5 mm H (5 1/8" L x 2 3/4" W x 1 1/8" H)

## Laser Sight Specifications

**Wavelength (color):** 650 nm (red)  
**Operating Distance:**  
**Laser Dot:** 0.9 to 9 m (3 to 30')  
**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)

## Cautionary Notes

- For accurate distance measurement readings, the surface must be hard, flat, and reflective to ultrasonic pulse
- Distance measurement can not be taken through glass, or off of soft and padded surfaces
- The distance measurement unit must be held perpendicular to the target surface
- The distance measurement unit is designed for indoor use only
- Accuracy of the distance measurement unit will vary depending on environmental conditions
- Do not aim the distance measurement unit at a person



**MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)					
Model Number	OS530L-DM	OS530HR-DM	OS532-DM	OS533RS-DM	OS534DL-DM
Price	\$370	\$420	\$625	\$725	\$825
Accuracy*	$\pm 1\%$ rdg	$\pm 1\%$ rdg	$\pm 1\%$ rdg	$\pm 1\%$ rdg	$\pm 1\%$ rdg
Range	-18 to 538°C 0 to 1000°F	-30 to 121°C -22 to 250°F	-18 to 538°C 0 to 1000°F	-18 to 538°C 0 to 1000°F	-18 to 871°C 0 to 1600°F
Emissivity	adjustable	adjustable	adjustable	adjustable	adjustable
Backlit Dual Display	standard	standard	standard	standard	standard
Distance to Spot Size Ratio	10:1	20:1	10:1	20:1	30:1
Differential Temperature	standard	standard	standard	standard	standard
Min/Max Temperature	standard	standard	standard	standard	standard
Average Temperature	standard	standard	standard	standard	standard
High Alarm	standard	standard	standard	standard	standard
Low Alarm	—	—	—	standard	standard
Audible Buzzer & Indicator	standard	standard	standard	standard	standard
Ambient Target Temp Comp.	—	—	—	standard	standard
Analog Output	1 mV/deg	1 mV/deg	1 mV/deg	1 mV/deg	1 mV/deg
RS-232 Output	—	—	—	standard	standard
Thermocouple Input	—	—	standard	standard	standard
Data Storage	—	—	—	—	standard
Laser Sight (Built-In)	dot/circle	dot/circle	dot/circle	dot/circle	dot/circle
Trigger Lock	standard	standard	standard	standard	standard
Last Temperature Recall	standard	standard	standard	standard	standard
Distance Measuring	standard	standard	standard	standard	standard

\* or 1.7°C (3°F), whichever is greater. Model OS530HR-DM has 0.1° display resolution.

**Ordering Examples:** OS532-DM, handheld infrared thermometer with built-in dot/circle laser sighting, thermocouple input, and distance measuring feature, plus OCW-3, OMEGACARE<sup>SM</sup> 3-year extended warranty, \$625 + 156 = \$781. OS534DL-DM, handheld infrared thermometer with built-in laser sighting, thermocouple input and RS-232 output and distance measuring feature, plus OCW-3 OMEGACARE<sup>SM</sup> 3-year extended warranty, \$825 + 206 = \$1031.

## Accessories

Model No.	Price	Description
OS520-ADAPTOR-110V	\$25	110 Vac wall adaptor
OS520-ADAPTOR-220V	25	220 Vac wall 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
TRIPOD	45	Lightweight tripod with carrying case
HH-DM	75	Distance measuring meter with mounting bracket



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

Lightweight tripod with carrying case sold separately, \$45

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To order by phone, call **1-800-82-66342** or **1-800-TC-OMEGA**

Shop Online at [omega.com](http://omega.com)<sup>SM</sup>



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