What’s NEW at omega.com

OS136 & OS137 Compact Non-Contact Infrared Temperature Sensor/Transmitter (See Page 14)

Optional DV Camera Attachment Fits All OS Series Infrared Thermometers (See Page 11)

OMEGASCOPE® OS523/OS524 Series High Temperature Infrared Thermometer with Sighting Scope (See Page 12)

OMEGASCOPE® OS533E Handheld Infrared Thermometer (See Page 4)

New! Digital Video Camera Option Available On All OS Series IR Models!
OMEGASCOPE®
OS533E, $625
High Temperature Handheld Infrared Thermometer With Built-In Distance Measurement & DV-CAM Attachment, $145.
See Pages 9 Through 11.

At omega, We Make Running Improvements,

DV-CAM & Standard Accessories

DV-CAM, $145,
See Page 11.

¼" Mini-Stereo Jack to RCA Audio/Video Cable Adaptor (Included)
Mini-Tripod (Included)
For DV-CAM Only. Not To Be Used With Infrared Thermometer
Detachable Strap (Included)
USB Cable (Included)
Software Bundle (Included)

DV-CAM Can Be Removed and Used Independently!

DV-CAM Accessory Works With All OMEGA OS Series IR Thermometers!

Model HH-DM, $75
Field Installable, Distance Measuring Meter.
See Page 9.

32 MB Flash Memory Card (Included)

EXCLUSIVELY FROM OMEGA!
OMEGASCOPE®
OS523/OS524 Series
High Temperature
Handheld Infrared
Thermometer With
Sighting Scope.

NOT Model Number Changes Wherever Possible!

TEMPERATURE DEVELOPMENTS®
OS533E Series OMEGASCOPE®
Shown With All Standard
Accessories Included.
See Page 9.

Cables
Adaptors
Type K Thermocouple
Complete Operator’s Manual
Carrying Case

Laser Circle to Dot Switchable™
Built-In Laser Sighting
High Intensity
Single Dot
Circle

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

OS136, $175 & OS137, $345
Compact Non-Contact
Infrared Temperature
Sensor/Transmitter.
See Page 14.

OS523-2-SC
Shown, $1195.
See Page 12.

To Order, Call 1-877-62-66342® or Shop Online at omega.com®

OS136, $175 & OS137, $345
Compact Non-Contact
Infrared Temperature
Sensor/Transmitter.
See Page 14.

OS523-2-SC
Shown, $1195.
See Page 12.

TEMPERATURE DEVELOPMENTS®
OS523/OS524 Series
High Temperature
Handheld Infrared
Thermometer With
Sighting Scope.
OMEGASCOPE®
Handheld Infrared Thermometer
Loaded with Features. New Distance Measurement Option Available!

OMEGASCOPE®
OS533E
$550
Other models available starting at $295

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

FREE SOFTWARE INCLUDED

Laser Circle to Dot Switchable™
Built-In Laser Sighting
High Intensity
Single Dot Circle

4 “AA” lithium batteries included

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

Shown close to actual size

Shown with probe Model 88006, $115, sold separately.

To Order, Call 1-877-TC-OMEGA or Shop Online at omega.comSM
Rugged, High-Performance Design

✓ Built-In Patented Laser Sighting is Switchable Between Laser Dot or Circle Patterns
✓ The Laser Can be Flashing or Continuous
✓ New Series Includes Models with High-Performance, General Purpose, Close Focus and High Resolution
✓ 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
✓ Distance Measuring Option—Either Field Mountable or Built-In [0.9 and 9 m (3 and 30') Range]
✓ Digital Video Camera Option Available
✓ Backlit LCD Display
✓ Dual Digital Display Indicates Current with Min, Max, Average, or Difference Temperatures
✓ °C/°F Selectable
✓ 1 mV/ Degree Analog Output Standard
✓ RS-232 Output Models Include FREE Data Logging Software
✓ Audible and Visible Alarms
✓ Integral Tripod Mount
✓ Type K Thermocouple Input Available
✓ Temperature Data Storage Available
✓ Electronic Trigger Lock
✓ Last Temperature Recall

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

To Order, Call 1-877-TC-OMEGA® or Shop Online at omega.com®
Standard Features

- **Patented Laser Sighting Switchable**
- Between Dot and Circle Laser Pattern

- **Tripod Mountable**

- **Analog Output**
  - Standard on All Models

- **Large, Backlit Display**

**OS530 Series**

**Handheld Thermometer Series**

With a combination of powerful features, the portable and rugged OS530 Series infrared thermometers offer solutions for many non-contact temperature measurement applications. Emissivity adjustable in 0.01 increments, the OS530 Series provides versatility when measuring a variety of surfaces.

A custom backlit LCD display provides dual digital displays 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 OS530 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.
**OMEGASCOPE®**
Handheld Infrared Thermometer
Series Field of View

### DISTANCE: SENSOR LENS TO OBJECT (FT)

<table>
<thead>
<tr>
<th>SPOT DIA.* (IN)</th>
<th>D:S = 10:1</th>
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</thead>
<tbody>
<tr>
<td>0.5&quot; @ 3&quot;</td>
<td>2.5</td>
</tr>
<tr>
<td>1.3 cm @ 7.6 cm</td>
<td>4.3</td>
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**OS530LE, OS530LE-DM, OS533E and OS533E-DM**

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<thead>
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<tr>
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### DISTANCE: SENSOR LENS TO OBJECT (FT)

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<td>2.5 cm @ 51 cm</td>
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**OS530HRE, OS530HRE-DM, OS533E and OS533E-DM**

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<td>200</td>
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<td>244</td>
<td>816</td>
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### DISTANCE: SENSOR LENS TO OBJECT (FT)

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<tr>
<td>1.0&quot; @ 30&quot;</td>
<td>4.5</td>
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<tr>
<td>2.5 cm @ 76 cm</td>
<td>9.9</td>
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**OS534E and OS534E-DM**

### DISTANCE: SENSOR LENS TO OBJECT (CM)

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<tr>
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<td>250</td>
<td>750</td>
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<td>300</td>
<td>900</td>
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### DISTANCE: SENSOR LENS TO OBJECT (IN)

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<td>0.9&quot;</td>
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<td>15&quot;</td>
<td>60</td>
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</table>

**OS530LE-CF, OS533E-CF and OS534E-CF**

### DISTANCE: SENSOR LENS TO OBJECT (CM)

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<th>SPOT DIA.* (CM)</th>
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<td>7.6</td>
<td>30.5</td>
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<tr>
<td>15.2</td>
<td>60.8</td>
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<tr>
<td>22.9</td>
<td>83.9</td>
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<tr>
<td>30.5</td>
<td>115.2</td>
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<tr>
<td>38.1</td>
<td>145.4</td>
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**For Distance Measurement and Digital/Video Camera Options,**
*Please See Pages 9 & 11.*

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

---

FREE data logging software included with most models. Please consult sales or visit omega.com

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To Order, Call 1-877-826-6634® or Shop Online at omega.comSM
Specifications
Repeatability: ±(1% rdg + 1 digit)
Resolution: 1°C or 1°F (0.1°C or °F on OS303HRE)
Response Time: 100 msec
Spectral Response: 8 to 14 µm
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: 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
RS-232: Two way communication

To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Price (Basic Unit)</th>
<th>Accuracy*</th>
<th>Range</th>
<th>Emissivity</th>
<th>Display Resolution</th>
<th>Distance to Spot Size Ratio</th>
<th>Differential Temperature</th>
<th>Min/Max Temperature</th>
<th>Average Temperature</th>
<th>High Alarm</th>
<th>Low Alarm</th>
<th>Audible Buzzer &amp; Indicator</th>
<th>Ambient Target Temp Comp.</th>
<th>Analog Output</th>
<th>RS-232 Output</th>
<th>Thermocouple Input</th>
<th>Data Storage</th>
<th>Laser Sight (Built-In)</th>
<th>Trigger Lock</th>
<th>Last Temperature Recall</th>
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</thead>
<tbody>
<tr>
<td>OS530LE</td>
<td>$295</td>
<td>±1% rdg</td>
<td>-23 to 538°C</td>
<td>adjustable</td>
<td>adjustable</td>
<td>10:1</td>
<td>std</td>
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<td>std</td>
<td>std</td>
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<td>std</td>
<td>dot/circle</td>
<td>std</td>
<td>std</td>
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<td>OS530HRE</td>
<td>$345</td>
<td>±1% rdg</td>
<td>-23 to 538°C</td>
<td>adjustable</td>
<td>adjustable</td>
<td>20:1</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>1 mV/deg</td>
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<td>std</td>
<td>dot/circle</td>
<td>std</td>
<td>std</td>
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<tr>
<td>OS530LE-CF</td>
<td>$345</td>
<td>±1% rdg</td>
<td>-23 to 538°C</td>
<td>adjustable</td>
<td>adjustable</td>
<td>0.15&quot; @ 6&quot;</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
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<td>1 mV/deg</td>
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<td>std</td>
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<td>dot</td>
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<td>OS532E</td>
<td>$450</td>
<td>±1% rdg</td>
<td>-23 to 538°C</td>
<td>adjustable</td>
<td>adjustable</td>
<td>1&quot;</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>1 mV/deg</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>dot</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>OS533E-CF</td>
<td>$550</td>
<td>±1% rdg</td>
<td>-23 to 538°C</td>
<td>adjustable</td>
<td>adjustable</td>
<td>1&quot;</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
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<td>std</td>
<td>1 mV/deg</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>dot</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>OS533E</td>
<td>$550</td>
<td>±1% rdg</td>
<td>-23 to 538°C</td>
<td>adjustable</td>
<td>adjustable</td>
<td>1&quot;</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>1 mV/deg</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>dot</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>OS534E-CF</td>
<td>$650</td>
<td>±1% rdg</td>
<td>-23 to 871°C</td>
<td>adjustable</td>
<td>adjustable</td>
<td>1&quot;</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>1 mV/deg</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>dot</td>
<td>std</td>
<td>std</td>
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<tr>
<td>OS534E</td>
<td>$650</td>
<td>±1% rdg</td>
<td>-23 to 871°C</td>
<td>adjustable</td>
<td>adjustable</td>
<td>1&quot;</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>std</td>
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<td>1 mV/deg</td>
<td>std</td>
<td>std</td>
<td>std</td>
<td>dot</td>
<td>std</td>
<td>std</td>
</tr>
</tbody>
</table>

* or 1.7°C (3°F), whichever is greater.
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, $295 + $73 = $368.
OS532E, handheld infrared thermometer with built-in Laser Circle to Dot Switchable™ feature and thermocouple input, plus OCW-3, OMEGACARE™ 3-year extended warranty, $450 + $112 = $562.
OS534-CF, close-focus handheld infrared thermometer with built-in Laser Circle to Dot Switchable™ feature, thermocouple input and RS-232 output, plus OCW-3, OMEGACARE™ 3-year extended warranty, $650 + $162 = $812.

Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Price</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>OS520-ADAPTOR-110V</td>
<td>$25</td>
<td>110 Vac wall adaptor</td>
</tr>
<tr>
<td>OS520-ADAPTOR-220V</td>
<td>$25</td>
<td>220 Vac wall adaptor</td>
</tr>
<tr>
<td>OS520-RCC</td>
<td>$30</td>
<td>Hard carrying case</td>
</tr>
<tr>
<td>OM-3000-SC</td>
<td>$15</td>
<td>Soft carrying case (spare)</td>
</tr>
<tr>
<td>88013K</td>
<td>$110</td>
<td>Surface probe, up to 815°C (1500°F)</td>
</tr>
<tr>
<td>88001K</td>
<td>$110</td>
<td>Surface probe, up to 482°C (900°F)</td>
</tr>
<tr>
<td>CAL-3-IR</td>
<td>$125</td>
<td>NIST traceable calibration</td>
</tr>
<tr>
<td>TRIPOD</td>
<td>$45</td>
<td>Lightweight tripod with carrying case</td>
</tr>
<tr>
<td>HH-DM</td>
<td>$75</td>
<td>Distance measuring meter w/mounting bracket (3 to 30’)</td>
</tr>
<tr>
<td>DV-CAM</td>
<td>$145</td>
<td>Digital video camera</td>
</tr>
</tbody>
</table>

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)
MEGASCOPE™ Handheld Infrared Thermometer
with Built-In Distance Measuring Option

MEGASCOPE™
OS533E-DM Shown
$625
Units available for as low as $370

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

Model OS533E-DM with built-in distance measuring option, shown smaller than actual size, $625.

For additional features and models, please consult sales or visit omega.com

To Order, Call 1-877-TC-OMEGA or Shop Online at omega.com™
### Specifications

- **Repeatability:** ±(1% rdg + 1 digit) 
- **Resolution:** 1°C or 1°F (0.1°C or 0.1°F on OS530HRE-DM) 
- **Response Time:** 100 msec 

- **Spectral Response:** 8 to 14 μm 
- **Emissivity:** 0.10 to 1.00 in 0.01 increments 
- **Operating Ambient:** 0.01 increments 0.10 to 1.00 in 
- **Emissivity:** 1⁄4” to 20 UNC 

- **Power:** 4 “AA” lithium batteries (included) or optional ac adaptor 
- **Battery Life:** 60 hr, alkaline; 10 days, lithium (without distance measuring) 
- **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:** Two way communication

### Distance Measurement Specifications

- **Range:** 0.9 to 9 m (3 to 30’) 
- **Accuracy:** 1% 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 ¾ L x 2 ¼ W x 1 ¾” H) 

### 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) 

### 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, or through smoke or fog 
- 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

### To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Price</th>
<th>Description</th>
</tr>
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<tbody>
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<td>OS530LE-DM</td>
<td>$370</td>
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<td>OS530HRE-DM</td>
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<table>
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<td>OM-3000-SC</td>
<td>$15</td>
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<td>88013K</td>
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<td>Surface probe, up to 815°C (1500°F)</td>
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<td>88001K</td>
<td>$110</td>
<td>Surface probe, up to 482°C (900°F)</td>
</tr>
<tr>
<td>CAL-3-IR</td>
<td>$125</td>
<td>NIST traceable calibration</td>
</tr>
<tr>
<td>TRIPOD</td>
<td>$45</td>
<td>Lightweight tripod with carrying case</td>
</tr>
<tr>
<td>HH-DM</td>
<td>$75</td>
<td>Distance measuring meter with mounting bracket</td>
</tr>
<tr>
<td>DV-CAM</td>
<td>$145</td>
<td>Digital video camera</td>
</tr>
</tbody>
</table>


### Accessories

- **HH-DM Field Installable distance measuring meter, $75 and lightweight tripod with carrying case, $45 sold separately.**
Digital Video Camera
Works With All OMEGASCOPE®
IR Thermometers!

- 35.6 mm (1.4”) Color LCD Display
- 32MB Compact Flash Memory Card (Included)
- USB Port
- Built-in Microphone and Speaker
- Digital Video Camcorder
- Digital Still Camera
- Digital Voice Recorder
- Export to TV
- Display/Software Bundle
- Supports Windows 98SE/ME/2000/XP
- DV Cam Manager
- Microsoft® NetMeeting
- VideoLive Mail
- Ulead® DVD MovieFactory™ SE Basic
- Photo Express™
- Photo Explorer™
- 10-Second Self-Timer
- Power Saving/Auto Power Off if Idle for Over 60 Seconds

Specifications

Digital Video Camcorder: QVGA (320 x 240 pixels)/10 fps

Digital Still Camera:
- 2M (1600 x 1200 pixels)
- SXGA (1280 x 1024 pixels)
- VGA (640 x 480 pixels)

PC Camera:
- VGA (640 x 480 pixels)/10 fps
- QVGA (320 x 240 pixels)/24 fps

Digital Voice Recorder:
- About 4 min/1 MB memory

A/V out: Supports NTSC/PAL color TV system

Battery: “AA” x 2 (Alkaline)

Dimensions:
- 68 L x 41 W x 84 mm H (2.7 x 1.6 x 3.3”)

System Requirements:
- Windows 98SE/ME/2000/XP
- Pentium II, 266 MHz (or equivalent) processor or higher (Pentium III recommended)
- Direct x 8.0 or above
- 32 MB of RAM (64 MB recommended)
- Video card with 4 MB of RAM for minimum 16 bit (High Color) display.

Reference Table

<table>
<thead>
<tr>
<th>Memory (MB)</th>
<th>Still Pictures (1280 x 1024)</th>
<th>AVI Movies (min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in SDRAM</td>
<td>12</td>
<td>1.5</td>
</tr>
<tr>
<td>32 MB</td>
<td>80</td>
<td>6 to 9</td>
</tr>
<tr>
<td>64 MB</td>
<td>160</td>
<td>12 to 18</td>
</tr>
<tr>
<td>128 MB</td>
<td>320</td>
<td>24 to 36</td>
</tr>
</tbody>
</table>

To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DV-CAM</td>
<td>$145</td>
<td>Digital/video camera with mounting hardware</td>
</tr>
<tr>
<td>32MB-FC</td>
<td>25</td>
<td>Replacement 32 MB compact flash memory card</td>
</tr>
</tbody>
</table>

Laptop Computer Not Included.

To Order, Call 1-877-322-0634 or Shop Online at omega.comSM

Note: Mini-tripod to be used only with video camera, not with infrared thermometer.

High Temperature Handheld Infrared Thermometer
With Optional Sighting Scope

OMEGASCOPE®
OS523/OS524 Series
$1095
Basic Unit

Rugged, High Performance Design
✓ Models Available with Temperature Ranges to 2482°C (4500°F)
✓ Built-In Laser Circle to Dot Switchable™ Feature
✓ Emissivity Adjustable from 0.1 to 1.00 in 0.01 Steps
✓ Backlit LCD Display
✓ Dual Digital Display Indicates Current with Min, Max, Average or Difference Temperatures
✓ °C/°F Selectable
✓ 1 mV/Degree Analog Output Standard
✓ RS-232 Output
✓ Ambient Target Temperature Compensation
✓ Audible and Visible Alarm
✓ Integral Tripod Mount
✓ Electronic Trigger Lock
✓ Last Temperature Recall
✓ Data Storage up to 100 Temperature Points

Specifications
Accuracy: ± 1% of rdg or 2°C/3.6°F, whichever is greater
Repeatability: ± (1% rdg + 1 digit)
Resolution: 1°C or 1°F
Response Time: 100 msec
Spectral Response:
OS523: 8 to 14 µ
OS524: 2 to 2.5 µ
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: 10 days, lithium; 60 hours, alkaline
Tripod Mount: ¼” to 20 UNC
Display: Backlit LCD; displays current and min or max, differential, average temperatures simultaneously
Alarm: High and low alarm standard, with audible and visual indication
RS-232: One-way communication

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

free datalogging software included with all models. Please visit omega.com for software features.

PATENTED
Detailed information on patents issued and pending on many aspects of this device including but not limited to laser circle.

to order, call 1-877-663-4276 or shop online at omega.com™
LASER SIGHT SPECIFICATIONS

- Wavelength (color): 650 nm (red)
- Operating Distance:
  - Laser Circle: 0.6 to 4.5 m (2 to 15')
  - Laser Dot: 0.6 to 12 m (2 to 40')
- FDA Classification: Class II
- European Classification: Class 2
- Beam Diameter: 5 mm (0.2")
- Operating Temperature: 0 to 50°C (32 to 122°F)

---

ALL MODELS AVAILABLE FOR FAST DELIVERY!

**To Order (Specify Model Number)**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>OS523-1, -2, -3(*)</th>
<th>OS524(*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$1095</td>
<td>$1295</td>
</tr>
<tr>
<td>Accuracy†</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
</tr>
<tr>
<td>Range</td>
<td>-18 to 1370°C (0 to 2500°F)</td>
<td>538 to 2482°C (1000 to 4500°F)</td>
</tr>
<tr>
<td>Emissivity</td>
<td>adjustable</td>
<td>adjustable</td>
</tr>
<tr>
<td>Backlit Dual Display</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Distance to Spot Size Ratio</td>
<td>See Figure</td>
<td>110:1</td>
</tr>
<tr>
<td>Differential Temperature</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Min/Max Temperature</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Average Temperature</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>High Alarm</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Low Alarm</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Audible Buzzer &amp; Indicator</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Ambient Target Temp Comp.</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Analog Output</td>
<td>1 mV/deg</td>
<td>0.5 mV/deg</td>
</tr>
<tr>
<td>RS-232 Output</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Free Datalogging Software</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Printer Output</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Data Storage</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Laser Sight-Built-in</td>
<td>std - dot/circle (-3, dot)</td>
<td>std - dot/circle</td>
</tr>
<tr>
<td>Trigger Lock</td>
<td>std</td>
<td>std</td>
</tr>
<tr>
<td>Last Temperature Recall</td>
<td>std</td>
<td>std</td>
</tr>
</tbody>
</table>

---

**Accessories (Specify Model Number)**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS520-ADAPTOR-110V</td>
<td>$25</td>
<td>110 ac adaptor</td>
</tr>
<tr>
<td>OS520-ADAPTOR-220V</td>
<td>25</td>
<td>220 ac adaptor</td>
</tr>
<tr>
<td>OS520-RCC</td>
<td>30</td>
<td>Hard carrying case (standard)</td>
</tr>
<tr>
<td>OS520-SC-RCC</td>
<td>30</td>
<td>Hard carrying case (large)</td>
</tr>
<tr>
<td>OM-3000-SC</td>
<td>15</td>
<td>Soft carrying case (spare)</td>
</tr>
<tr>
<td>CAL-3-IR</td>
<td>125</td>
<td>NIST traceable calibration</td>
</tr>
<tr>
<td>SC-520</td>
<td>100</td>
<td>Sighting scope</td>
</tr>
<tr>
<td>TRIPOD</td>
<td>45</td>
<td>Lightweight tripod with carrying case</td>
</tr>
</tbody>
</table>
Non-Contact Infrared Temperature Sensors/Transmitters

Each unit includes:
two hex mounting nuts, a 1.8 m (6')
shielded cable and operator’s manual.

Model OS136
$175
Basic Unit

Model OS136 Features
✓ Two Temperature Ranges Available
✓ 6 to 1 FOV & Fixed Emissivity of 0.95
✓ Stainless Steel NEMA-4 Rated Housing
  (0.75 O.D. X 3.5" L)
✓ 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc,
  Type K Thermocouple, 10 mV/Degree
  Analog Outputs Available

OMEGA’s OS136 Series miniature, low-cost, high
performance infrared sensor/transmitter is ideal for
applications that require measuring temperature in
hard-to-reach, confined or harsh environment areas.
Models feature industry standard outputs that provide
easy interfacing directly to all meters, controllers,
dataloggers, recorders, computer boards and PLCs.

Model OS137
$345
Basic Unit

Model OS137 Features
✓ Three Temperature Ranges Available
✓ Adj. Alarm Setpoint and Voltage Output
✓ Stainless Steel, NEMA-4 Rated Housing
  (1.0 O.D. X 5.0" L)
✓ 10:1 Optical FOV & Adjustable Emissivity
✓ 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc,
  10 mV/Deg, & Type K Thermocouple
  Outputs Available

OMEGA’s new industrial infrared sensor/transmitter
model OS137 provides many features and options in a
small Stainless Steel housing. The standard features
are adjustable emissivity, 10 to 1 optical field of view,
adjustable alarm set point and voltage output to drive
external relays, and six pre-selected analog outputs
that can easily be interfaced to all meters, controllers,
dataloggers, recorders, computer boards, and PLCs.
Specifications

Temp Range:

OS136-1: -18 to 204°C (0 to 400°F)
OS136-2: 149 to 538°C (300 to 1000°F)
OS137-1: 0 to 100°C (32 to 212°F)
OS137-2: -18 to 260°C (0 to 500°F)
OS137-3: 149 to 538°C (300 to 1000°F)

Accuracy:

OS136-1: 3% Rdg or 4.4°C (8°F) whichever is greater.
OS136-2: 3% Rdg or 5.5°C (10°F) whichever is greater
OS137-1, 2, 3: 1.5% Rdg or 2°C (3.5°F) whichever is greater

Repeatability: 1% Rdg or 1°C (2°F)

Field of View:

OS136: 6 to 1
OS137: 10 to 1

Spectral Response: 5 to 14 microns

Emissivity:

OS136: Fixed at 0.95
OS137: 0.5 to 1.0, adjustable

Response Time:

150 msec, 0 to 63% of final value

Outputs:

-MA: 4 to 20 mA
-V1: 0 to 5 Vdc
-V2: 0 to 10 Vdc
-K: K Thermocouple
-MVF: 10 mV/°F
-MVC: 10 mV/°C

ALARM (OS137 MODELS ONLY)

Alarm Output: Voltage, 100 mA drive
Alarm Set Point: 0 to 100% adj.
Power: 12 to 24 Vdc @ 50 mA

Operating Temperature:

Without Cooling: 0 to 70°C (32 to 158°F)
With Water Cooling: 0 to 200°C (32 to 392°F)
With Air Cooling: 0 to 110°C (32 to 230°F)

Operating Relative Humidity:

Less than 95% RH, non-condensing

Housing:

Stainless Steel, NEMA-4 and IP65

Dimensions:

OS136: 19 O.D. x 89 L mm (0.75 O.D. x 3.5” L)
OS137: 25.4 O.D. x 127 L mm (1 O.D. x 5” L)

Weight:

OS136: 181 g (0.4 lb)
OS137: 226 g (0.5 lb)

LASER SIGHTING

Wavelength: 630 to 670 nm (Red)
Operating Distance: Up to 9.1 m (30’)
Max. Laser Power Output: <1 mW

European Classification:

Class 2, EN60825-1/11.2001

FDA Classification:

Class II, Complies with 21 CFR 1040.10

Laser Beam Diameter: 5 mm (0.20”)
Beam Divergence: < 2 mrad
Power Switch: on battery pack
Power Indicator: Red LED

Caution & Certification Label:

Located on the head circumference

Aperture & Identification Label:

Located on the head circumference

Connect your OS136 or OS137 to a precision controller model CN8DH, $340, sold separately, please visit omega.com for complete information on this and other iSeries meters and controllers.

To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS136-(†)-MV-F</td>
<td>$175</td>
<td>Infrared transmitter with 10 mV/°F output</td>
</tr>
<tr>
<td>OS136-(†)-MV-C</td>
<td>175</td>
<td>Infrared transmitter with 10 mV/°C output</td>
</tr>
<tr>
<td>OS136-(†)-(**)</td>
<td>175</td>
<td>Infrared transmitter with analog or K output</td>
</tr>
<tr>
<td>OS137-(*)-MV-F</td>
<td>345</td>
<td>Infrared transmitter with 10 mV/°F output</td>
</tr>
<tr>
<td>OS137-(*)-MV-C</td>
<td>345</td>
<td>Infrared transmitter with 10 mV/°C output</td>
</tr>
<tr>
<td>OS137-(*)-(**)</td>
<td>345</td>
<td>Infrared transmitter with analog or K output</td>
</tr>
</tbody>
</table>

† Insert “1” for -18 to 204°C (0 to 400°F); Insert “2” for 149 to 538°C (300 to 1000°F).
* Insert “1” for 0 to 100°C (32 to 212°F); Insert “2” for -18 to 260°C (0 to 500°F); Insert “3” for -18 to 538°C (0 to 1000°F).
** Insert “MA” for 4 to 20 mA output; Insert “V1” for 0 to 5 Vdc output; Insert “V2” for 0 to 10 Vdc output; Insert “K” for K T/C output.

Ordering Examples:

OS137-1-MA, Infrared transmitter with temperature range of 0 to 100°C (32 to 212°F) and 4 to 20 mA output, $345.
OS137-1-V1 and CN8DH33, Infrared transmitter with temperature range of 0 to 100°C (32 to 212°F) and 0 to 5 Vdc output, and ¼ DIN temperature controller, $345 + 340 = $685.

Accessories

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS100-MB</td>
<td>$20</td>
<td>Mounting bracket</td>
</tr>
<tr>
<td>OS100-AP</td>
<td>30</td>
<td>Air purge collar</td>
</tr>
<tr>
<td>OS136-WC</td>
<td>150</td>
<td>Water/air cool jacket</td>
</tr>
<tr>
<td>OS136-LS</td>
<td>175</td>
<td>Laser sighting</td>
</tr>
<tr>
<td>OS137-MB</td>
<td>$30</td>
<td>Mounting bracket</td>
</tr>
<tr>
<td>OS137-AP</td>
<td>30</td>
<td>Air purge collar</td>
</tr>
<tr>
<td>OS137-WC</td>
<td>150</td>
<td>Water/air cool jacket</td>
</tr>
<tr>
<td>OS137-LS</td>
<td>125</td>
<td>Laser sighting</td>
</tr>
</tbody>
</table>

Note: One OS137-LS or OS136-LS laser sighting accessory is suitable for aligning multiple sensors and is used during installation only.

All Models

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSR-24S</td>
<td>$60</td>
<td>Regulated power supply, 24 Vdc, 400 mA, screw terminal</td>
</tr>
<tr>
<td>PSR-24L</td>
<td>60</td>
<td>Regulated power supply, 24 Vdc, 400 mA, UL, stripped leads</td>
</tr>
<tr>
<td>PSR-24L-230</td>
<td>60</td>
<td>Regulated power supply, 24 Vdc, 400 mA, 1.83 m (6') cord with stripped leads, 230 Vac input, CE</td>
</tr>
<tr>
<td>PSU-93</td>
<td>40</td>
<td>Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal</td>
</tr>
<tr>
<td>CAL-3-IR</td>
<td>125</td>
<td>NIST traceable calibration</td>
</tr>
<tr>
<td>TX4-100</td>
<td>28.50</td>
<td>4 conductor shielded cable, 30 m (100')</td>
</tr>
</tbody>
</table>
Next Generation SUPERMETER®
With Patented Laser Sighting
True RMS Measurement!

Now! Wow!

HHM290
$245

3 METERS IN 1!
✓ Full Function Auto-Ranging Digital Multimeter
✓ Infrared Pyrometer with Laser Circle to Dot Switchable™ Feature
✓ Dual Thermocouple Input Thermometer With Differential Temperature Function
✓ Measures Frequency, Capacitance, and Inductance

Laser Circle to Dot Switchable™
High Intensity Laser Dot
Range: Up to 12 m (40')

Laser Circle
Range: Up to 4.5 m (15')

“'A technician’s dream come true!”

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Shop Online at omega.com®
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