**FEATURES**

- Luminance Output Range from $10^{-3}$ to 2,500 foot-Lamberts
- 98% Uniformity Over 20° Field of View
- Automated Dark Current Measurement and Compensation
- Selectable Units for Display and Setpoint
- Accuracy to $\pm 1 \times 10^{-4}$ fL or $\pm 0.50\%$, whichever is greater
- 2.50” and 4” Exit Aperture Diameter
- Ethernet, GPIB and RS-232 Interfaces

**OVERVIEW**

Santa Barbara Infrared’s Infinity VSX Series Integrating Sphere systems are ultra uniform, highly accurate visible light sources.

The VSX Series supports testing and calibration of CCD cameras, radiometers, photometers, and remote sensing systems. Testing and calibration are performed easily and hassle free with this compact, rugged, lightweight system.

SBIR specializes in providing hardware and software solutions that reduce test times and cost, while improving the consistency and accuracy of test results. The VSX Series is an ideal choice for achieving these requirements.

**AVAILABLE SIZES & TEMPERATURES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Exit Aperture Diameter</th>
<th>Luminance Range A $10^{-1}$-$1,250$ fL</th>
<th>Luminance Range B $10^{-2}$-$2,500$ fL</th>
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<tbody>
<tr>
<td>VSX-02</td>
<td>2.50”</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>VSX-04</td>
<td>4.00”</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Solutions**

**for Every EO Test Requirement**

30 S. Calle Cesar Chavez, Suite D – Santa Barbara, Ca. 93103
ph (805) 965-3669 • fax (805) 963-3658 • http://www.sbir.com
SPECIFICATIONS

Available Exit Aperture Diameter ....................... 2.50”, 4.00”
Standard Output Range Luminance                   VSX-02 $10^{-3}$ to 2,500fL
(at 2856 K Color Temperature)                      VSX-04 $10^{-3}$ to 1,250fL
Display Resolution                                  1x10^{-6} fL
Setpoint Resolution                                 1x10^{-4} fL or 0.10% of setpoint, whichever is greater
Luminance Accuracy                                 ±1 x 10^{-4} fL or ±1.00% of setpoint, whichever is greater
Stability                                          ±1 x 10^{-4} fL or ±0.50% of setpoint, whichever is greater
Uniformity                                         98% over 20° FOV
Settling Time                                       <60 seconds
Ready Indicator                                     Selectable ± 0.1% to 100%
Line Voltage                                        Selectable 100 / 120 / 220 / 240 V, 50 - 60Hz

GENERAL SPECIFICATIONS

Operating Temperature                               20°C to 25°C
Storage Temperature                                 -20°C to 70°C
Relative Humidity                                   5% to 95%, non-condensing
Visible Source Weight                               VSX-02 - 26.0 lbs., VSX-04 - 35.0 lbs.
Controller Weight                                   12 lbs.

DIMENSIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Aperture</th>
<th>Width</th>
<th>Optical Center Line</th>
<th>Height</th>
<th>Depth</th>
<th>Tgt. Depth</th>
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</thead>
<tbody>
<tr>
<td>VSX-02</td>
<td>2.50</td>
<td>9.00</td>
<td>5.00</td>
<td>13.43</td>
<td>9.50</td>
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<tr>
<td>VSX-04</td>
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<td>6.75</td>
<td>17.31</td>
<td>13.00</td>
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</tbody>
</table>

ORDER INFORMATION

Please contact the SBIR sales team at (805) 965-3669 to ensure proper part number and to receive a quotation.

Notes: 1. Other luminance ranges are available. Consult factory for details

* Specifications are subject to change without prior notice

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