



FEATURES

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

Model	Exit Aperture Diameter	Luminance Range A 10^{-3} -1,250 fL	Luminance Range B 10^{-3} -2,500 fL
VSX-02	2.50"		X
VSX-04	4.00"	X	

Solutions

for Every EO Test Requirement

30 S. Calle Cesar Chavez, Suite D • Santa Barbara, Ca. 93103
 ph (805) 965-3669 • fax (805) 963-3858 • <http://www.sbir.com>

SPECIFICATIONS

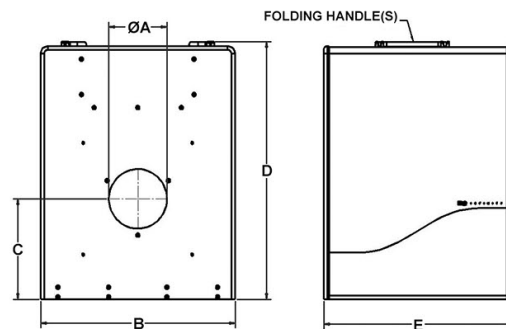
Available Exit Aperture Diameter.....	2.50", 4.00"
Standard Output Range Luminance ¹ (at 2856 K Color Temperature)	VSX-02 10 ⁻³ to 2,500fL VSX-04 10 ⁻³ to 1,250fL
Display Resolution	1x10 ⁻⁶ fL
Setpoint Resolution	1x10 ⁻⁴ fL or 0.10% of setpoint, whichever is greater
Luminance Accuracy	±1 x 10 ⁻⁴ fL or ±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

Model	(inches)					
	A Aperture	B Width	C Optical Center Line	D Height	E Depth	F Tgt. Depth
VSX-02	2.50	9.00	5.00	13.43	9.50	N/A
VSX-04	4.00	13.38	6.75	17.31	13.00	N/A



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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