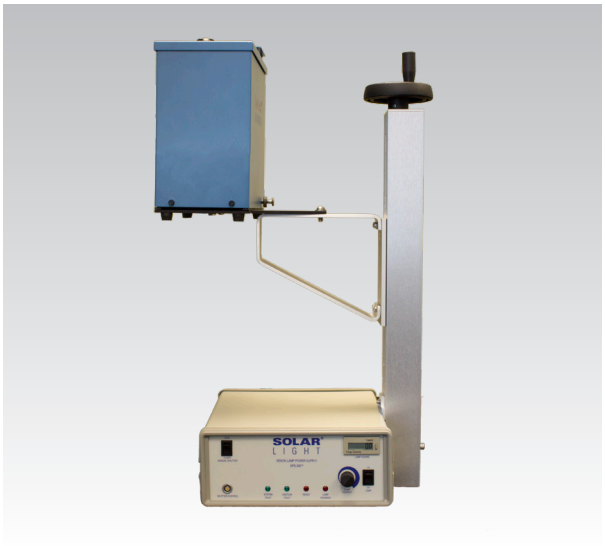
SOLAR® LIGHT

General Purpose Air Mass 1.5 Solar Simulator 16S-150-007

Basic Academic Research Testing

Solar Light Company,LLC has been the foremost name in light sciences since we invented the world's first Solar Simulator in 1967. Our state of the art Solar Simulator Model 16S-150-007 is a general purpose, entry level Xenon Arc testing kit. This unit has all of the filters, mirrors, and collimating lenses required for a Class A Spectrum simulator, except the Air Mass Filter set, which can be purchased and installed by the user at a later time. It can also be configured for UVA only, UVB only, UVA+B, Visible, or custom spectra optionally by adding the required optical components. Output can be controlled from 70-100% via the included XPS-150 power supply. The unit has a 1.2 (3 cm) round horizontal output as standard, but may also be used with our optional vertical adapter.



**Some Optional Equipment Shown*

16S-Series

- > 90% Uniformity in beam's usable area
- 150W Round Beam Model available in 1.2" (3 cm) single port output
- Focused Output

Advantages

- Standard and Customizable Simulators validated to comply to comply with ASTM, IEC, and ISO requirements
- CE Compliant
- Prepackaged Kits include Dose Controller / Radiometer, NIST-traceable Sensors, and all related accessories required for immediate testing
- Custom-Designed Spectra available
- High performance fused silica optical components included
- Excellent long-term stability
- Easy to use Intensity and Uniformity Measurement System
- Automatic shutter with remote control connection Included
- High efficiency Switching Power Supply with adjustable output for variable lamp power included
- Optional Air Mass 0 available
- Optional Visible Light Only output available
- Optional Light Attenuation Screens available
- Optional Validation available

ASTM Compliant | IEC Compliant | ISO ISO 24443 Compliant | JIS Compliant | CE Compliant

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SPECIFICATION	16S-150-007
Output Beam Size	1.2” (3 cm) Round
Beam Orientation	Vertical Downward, Vertical Upward, or Horizontal (please specify at order)
Lamp Type	Xenon Short Arc
Lamp Wattage (Nominal)	150W
Beam Uniformity	±10%
Spectral Match Classification	A (IEC 60904-9 2007)
	A (JIS C 8912)
	A (ASTM E927 - 05)
Temporal Instability Classification	A (IEC 60904-9 2007)
	A (JIS C 8912)
	A (ASTM E927 - 05)
Uniformity Classification	B (IEC 60904-9 2007)
	B (JIS C 8912)
	B (ASTM E927 - 05)
Light Ripple	< ±2% rms
Working Distance	~3.9” (10 cm)
Long Term Drift (<4 Hours)	<0.1%
Power Limit	Factory Set Limit is 150 watts
Operating Temperature	32°F to 95°F / 0°C to +35°C
Storage Temperature	-4°F to 185°F / -20°C to +85°C
Humidity	0 to 95% non-condensing
Cooling	Forced air
Medical Safety Certifications	EN61010-1 Laboratory, EN60335 Appliances, IEC60601-1 Medical
EMI/EMC	EN55011 Emissions, IEC60601-1-2:2001, 2nd Rev 2 Medical, IEC61000-3-2 Harmonic, IEC61000-3-3 Flicker, IEC61000-4-2 ESD, IEC61000-4-3 Radiated, IEC61000-4-4 EFT, IEC61000-4-5 Surge, IEC61000-4-6 Conducted, IEC61000-4-11 Voltage Dip, IEC61000-4-8 Magnetic Field
Weight	7.7 lbs. (3.2 kg.)

Part Number: 210063
Revision Level: B

Custom beam sizes and configurations available - please consult factory for details.

Compliant Compliant ISO 24443 Compliant Compliant Compliant

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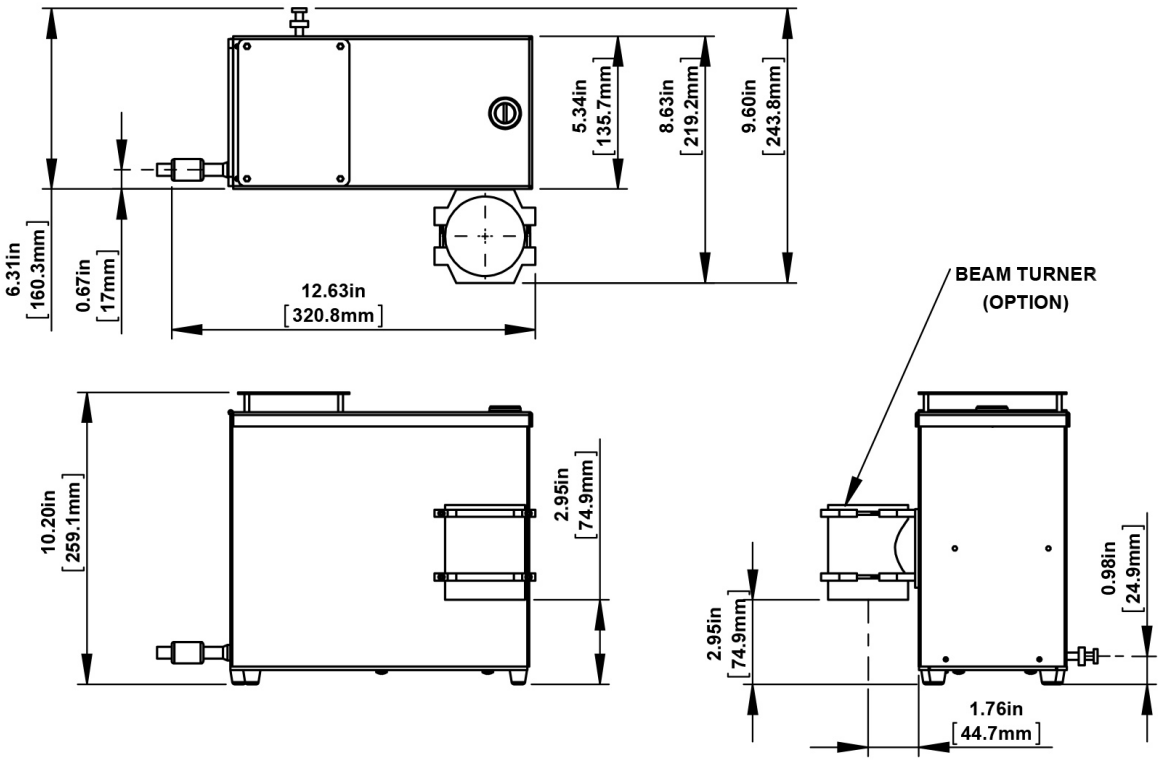
16S-Series 150W 1.2 Inch (3 cm) Solar Simulator Outline Drawing



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Since 1967, Solar Light Company, LLC has been recognized worldwide as America's premier manufacturer of Precision Solar Simulators and Light Sources, Light Measurement Instrumentation, UV Transmittance Analyzers, Meteorological Instrumentation, and Digital and Analog Sensors. Our advanced line of UV, visible, and IR radiometers and light meters measure laboratory, industrial, environmental, and health related light levels with NIST traceable accuracy. Column ozone, aerosol, and water vapor thickness measurements, in addition to long-term global ultraviolet radiation studies all over the world are performed using our atmospheric line of instrumentation. Solar Light also provides NIST traceable spectroradiometric analyses, calibrations for light meters and light sources, accelerated ultraviolet radiation degradation testing of materials, and OEM instrumentation and monitors. Please visit our website for more details, specifications, and pictures!

State Of The Art Solar Simulators available in 150-1000+ watt UV or AM variations for a variety of applications including PV Cell Testing, Materials Testing, Pre-Irradiation for In Vitro Broad Spectrum Sunscreen Testing, SPF Testing, and much more.

Multi-Functional Professional Grade Radiometers available with and without data logging, and compatible with over 130 Solar Light PMA-Series Sensors to measure UV, Visible and IR wavelengths. Specialty Meters also available to measure UV Radiation, SUV/UVA, Scotopic/ Photopic Spectra, and much more.

Advanced NIST-Traceable Sensors for accurate measurement of UVA, UVB, UVA+B, UVC, Visible, IR, Photostability, Temperature, and Custom Wavelength – well over 130 models in both digital and analog configurations, all compatible with our Radiometers.

Ultraviolet Transmittance Analyzers available as complete integrated turnkey systems to meet the latest ISO24443 requirements.

Handheld Ozonometers and Sunphotometers for fast and dependable Column Ozone, Aerosol, and Water Vapor Thickness measurements, in addition to long-term global ultraviolet radiation studies.

Compliant | Compliant | ISO 24443 Compliant | Compliant | Compliant

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