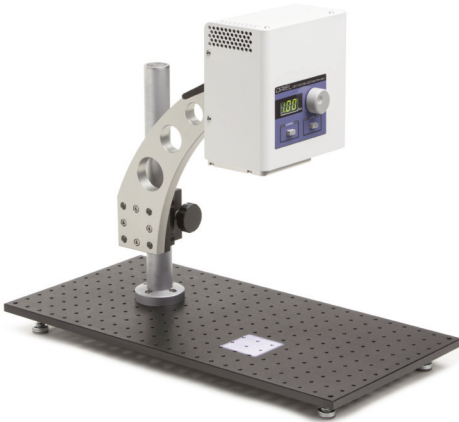


# LSH-7320 LED Solar Simulator



- Output beam size: 2 in. x 2 in. (51 mm x 51 mm)
- Factory certified IEC ABA Rated
- Variable output adjustment from 0.0 to 1.1 sun
- Fast turn on time; <100 ms via USB or external trigger
- 10,000 hour LED lifetime - no bulb replacement required
- Flexible mounting orientation
- PV cell placement indicator
- USB 2.0

The compact and easy to use LSH-7320 incorporates the benefits of LED technology in a value-priced, flexible solar simulator. The completely independent head includes all controls, LEDs, and optics allowing researchers flexible mounting and orientation options. External remote on/off triggering and long lamp life make remote mounting practical and bring LED technology to applications requiring only ABA ratings.

## Benefits of LEDs

Unlike typical lamp based solar simulators, LED based solar simulators have lamp lifetimes that can exceed 10,000 hours and do not require a long warm up time. Shuttering can be accomplished by simply turning the output on and off; no mechanical shutter is required. Careful attention to the design and the use of solid state LEDs allow the LSH-7320 to be oriented in any position to fit your application needs.

## Why Class ABA?

If your application doesn't require the highest level of uniformity of illumination, a Class ABA system may work for you. Class ABA systems still provide the highest spectral match performance (Class A) as defined by the most recent standards from the IEC.

## Put Our Expertise to Work

Leveraging Oriel's deep application and market understanding, the LSH-7320 Class ABA LED solar simulator was designed to provide high performance in a rugged design. Oriel is a world leader in solar simulator technology and our products are renowned for their value and strong after-sales support.

**Oriel**  
**INSTRUMENTS**  
A Newport Corporation Brand

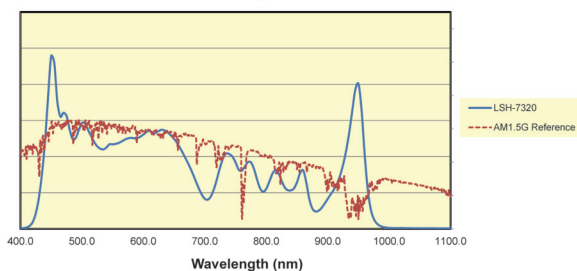
# LSH-7320 LED Solar Simulator

## LSH-7320 SOLAR SIMULATOR SPECIFICATIONS<sup>1</sup>

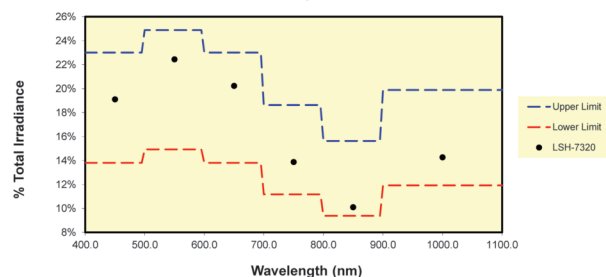
Illumination Area	2 inches x 2 inches (51 mm x 51 mm)
Total Power Output	110 mW/cm <sup>2</sup> (1.1 sun)
Variable Output Control	0.1 to 1.1 sun
Wavelength Range	400nm - 1100nm
Temporal Stability	A - IEC 60904-9 2007
Uniformity Classification	B - IEC 60904-9 2007
Spectral Match	A - IEC 60904-9 2007
Working Plane Adjustment	12 inches; 305 mm
Alignment	Laser diode based optical alignment
Z Axis Head Adjustment from Base	7.5 inches - 17.75 inches (190 mm - 450 mm)
Head Rotation <sup>2</sup>	0 - 360°
Remote Interface	USB 2.0 (B-Type) or BNC TTL for ON/OFF
TTL Turn On/Off Transition Time	10ms
Weight	
Head (on vertical assembly stand)	9.3 lbs (4.2 kg)
Stand	9.0 lbs (4.1 kg)
Power Supply	1.8 lbs (0.8 kg)
Dimensions	
Height (on vertical assembly stand)	15.25 - 25.5 inches (387 - 648 mm)
Width	7.25 inches (184 mm)
Depth	14.0 inches (362 mm)
Operating Temperature Range	10°C to 40°C
Storage Temperature Range	-40°C to 70°C
Humidity	<85%, relative, non-condensing
Compliance	CE, RoHS
Power Requirements	100-240 VAC, 47-63 Hz, 2.8A max
CE Certification	EN 61626-1:2013, EN 61010-1, EN 62471

NOTES: 1) All values are specified after a five minute warm up period.  
2) Indents on mounting plate at 0°, 90°, 180°, and 270° orientations.

LSH-7320 Spectrum



LSH-7320 Spectral Match



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