



Stable. Smooth. Solar Spectrum.

Blue Sun: Stable Solar Spectrum

Characterizing and calibrating your hyperspectral and multispectral imagers is critical in leveraging the highest level of performance from your remote sensing device. This requires calibration under the same use-conditions it will see in operation. Finding a consistent source with enough blue content has been a challenge – until now.

The high power in the blue region is matched with high temporal stability, and a smooth visible spectrum for long-term testing that minimizes spectral mismatch.

Key Performance Features

- High flux in the 400 - 2500 nm range
- Ultra-stable output
- Long calibration and lifetime
- Smooth spectrum with minimized spectral gradients
- Scalable for size and dynamic range

Applications

- Hyperspectral Imager Calibration
- Multispectral Imager Calibration
- Solar Projection Source
- Camera Flat-fielding
- Camera Response Calibration
- Ocean Color Measurements

Standard System Options

- Sphere Sizes: 20, 12 and 8 inch
- Port Sizes: 8, 4 and 2 inch

Performance

- Combine Blue Sun and QTH for Albedo emulation from 400 - 2500 nm
- Adjustable CCT Levels
- Dynamic Range from Night Vision to >AM0



PARAMETER	VALUE
Electrical Power Ratings	~150W
Approximate CCT, K	8500 K \pm 500 K
Rated Lifetime	10,000 hrs (TBD)
CCT, K (with QTH)	2856 K - 9000 K
Flux, lumens	4500
Luminance, cd/m ² (8" sphere, 2" port)	up to 100,000
illuminance, lux (8" sphere, 2" port)	up to 300,000
Short Term Stability , 30 min	< \pm 0.10% P-P, ~ 1 Hz
Rated AC Input/Frequency	100 - 240 VAC, 47 - 63 Hz
Operating Temperature Range	10 to 50°C
Storage Temperature Range	-20°C to 70°C
Operating Temperature RH%	30 - 90% (no condensation)
Storage Temperature RH%	10 - 95% (no condensation)
Recommended Warm Up Time	< 1 min. (TBC)
Accessories	Mixing Chamber, VA
Cooling	TEC w/ liquid or fan cooling
Compliance	CE, RoHS
Standard Warranty	1 year or 5,000 hours of use

