



LED Solar Simulator

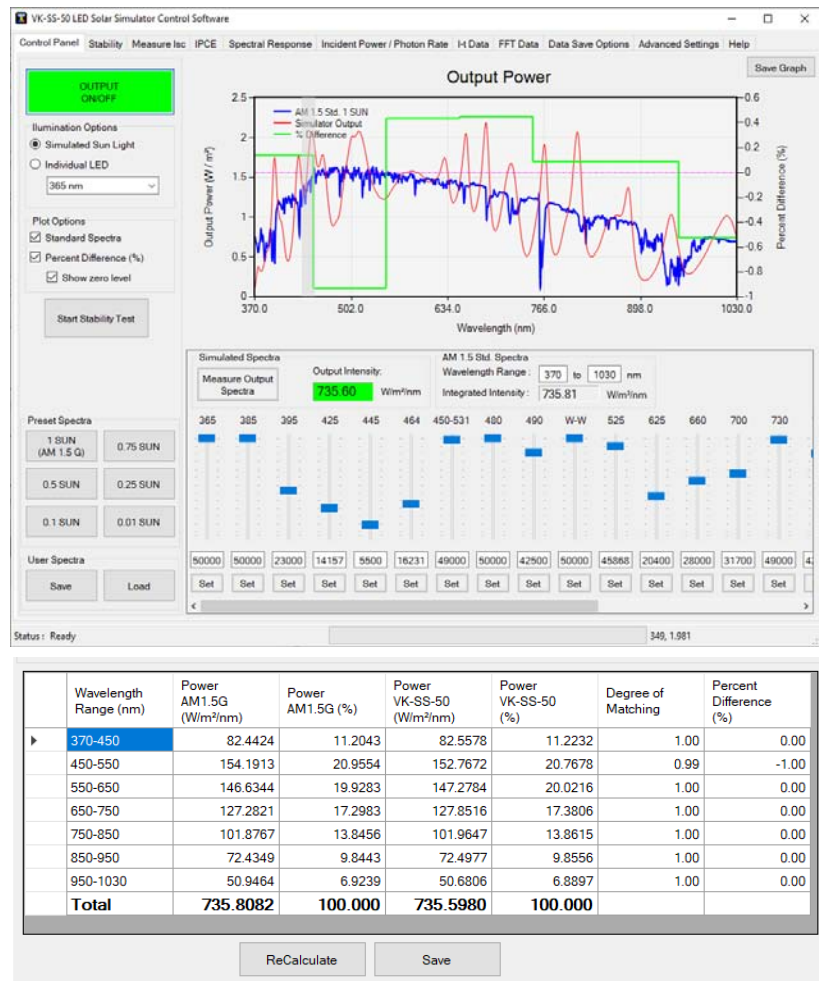
Type VK-SS-50

Innovative Solar Simulator Design Utilizing LED Light Sources

- Variable Output Adjustment from 0.0001 to 1.0 Sun
- User Settable Spectral Control
- Self Calibrating with Built-in Intensity Measurements
- More Than 20,000 Hours LED Lifetime
- Motorized sample mounting stage
- 30 mm × 30 mm Output Beam Size
- Energy Efficient Design



Specifications	
Simulator Class	A (JIS C8912)
Independent LED Control	Independently drives multiple LEDs at 22 individual wavelengths spaced over the spectrum from 370 nm to 1030 nm
Spectral Matching	Within $\pm 5\%$ of AM 1.5 G spectral characteristics in the range of 370 to 1030nm (at irradiance of 735.8 W/m^2)
Illumination Area and Distance	50 mm × 50 mm and 200 mm
Irradiation Intensity	70 mW/cm^2 (integrated irradiance at 370 to 1030 nm)
Illuminance Stability	within $\pm 1\%$ / h (after 30 minutes of lighting)
Illuminance Distribution	within $\pm 5\%$ (within effective irradiation area of 25mm x 25mm) within $\pm 2\%$ (within effective irradiation area of 10mm x 10mm)
Irradiation Direction	Downward irradiation
Software	Communication with the PC by Bluetooth The irradiation light spectrum can be adjusted by changing all 22 LEDs individually.
Cooling method	Forced air cooling
Input voltage	Single phase 100 V $\pm 5\%$ 50/60 Hz
Dimensions	Light unit: 400 (W) x 400 (D) x 550 (H) mm Control box: 320 (W) x 450 (D) x 150 (H) mm
Weight	~ 20 kg



SPD Laboratory, Inc.

2-35-1 Johoku, Hamamatsu, 432-8011, JAPAN

Tel: +81-53-474-7901 Fax: +81-53-401-7080

Email: inq@spd-lab.com

Web: <http://www.spd-lab.com/English/VK-PA-25.html>