Spectroradiometer

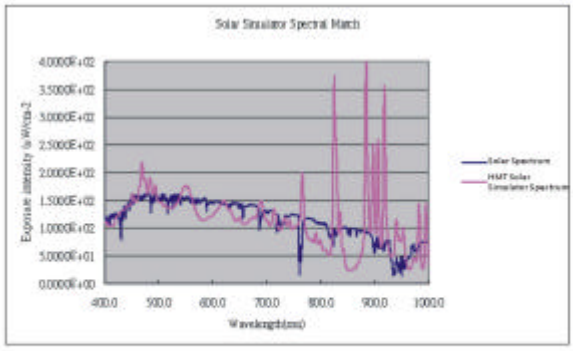
The spectroradiometer is designed to measure the spectral irradiance, spectral distribution and light intensity of sunlight and solar simulators.

The spectroradiometer, comprised of a CCD-array spectrometer and an integrating sphere, is calibrated by LS-1-CAL-INT, a NIST traceable calibration light source.

The spectrometer must be connected to a PC (or laptop computer) via interface USB 2.0/1.1, and data are obtained by using the furnished software.

Spectroradiometer Specification>>>

Spectral Range: 400-1050 nm (standard), 280-1100nm, 400-1700nm
Spectral Interval: 0.5nm
Spectral Resolution: 2nm
Spectral Accuracy: < 0.5nm
Intrinsic Repeatibility: 0.5%
Radiometric Accuracy: ± 5% VIS, ± 8% UV/NIR
Cosine Receptor Accuracy: ± 3% from 0 - 90°, all wavelengths
Stray Light: 0.05% at 600nm for VIS (standard)
Exposure Time: 10-60000ms
Unit of Output: W/m^2
Interface: USB 2.0/1.1, 16bit
Power: internal through USB
Software: Windows Me, 98, 2000, XP comparable. Automatic calculation of spectral match accuracy (IEC60904-9)
Dimension/ Weight: 140mm (W) X 140mm (D) X 70mm (H)/ 1kg



LS-1-CAL-INT Specification>>>

Power Consumption: 600mA @ 12 VDC
Power Output: 6.5 watts
Bulb Life: 900 hours (recommend recalibration after 50 hours of use)

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