

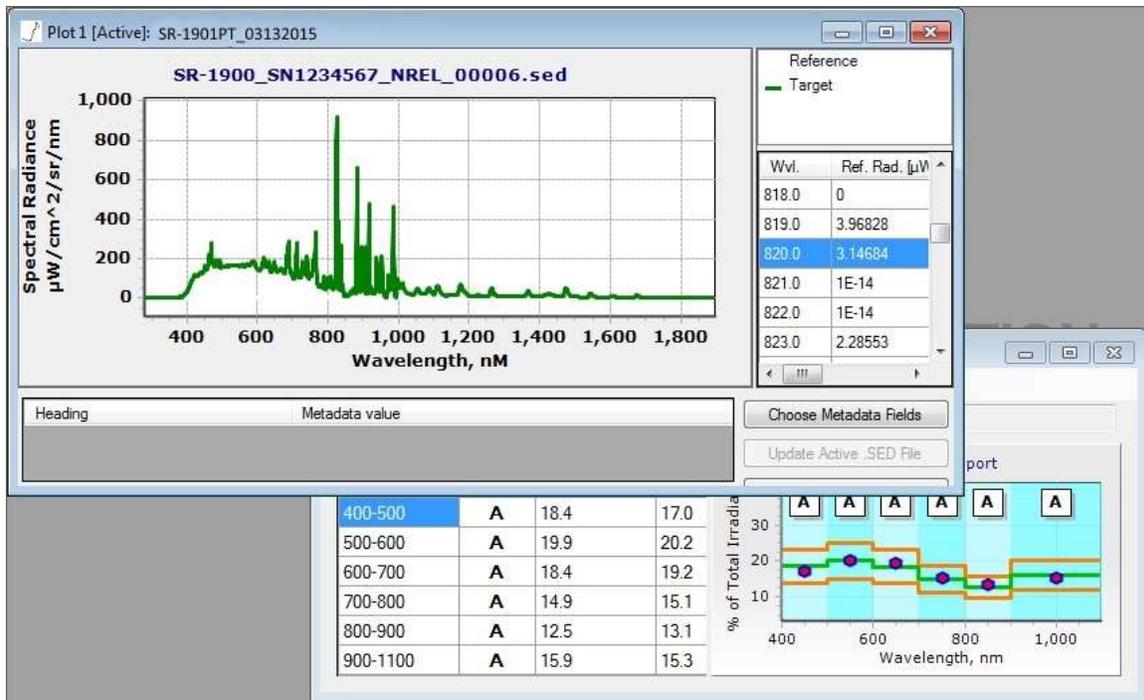
PRESS RELEASE

Short and Long Pulse – the SR-1901PT Accurately Classifies Pulsed Solar Simulators

Lawrence, MA – April 20, 2015 – Solar manufacturers are concerned with manufacturing efficiencies and auditable and reliable QA/QC to accurately measure the performance of cells and modules and meet customer guarantees. Solar simulators are used in quality monitoring to provide the necessary data. To ensure consistent and accurate measurement and data, the solar simulator requires testing to be certain it meets its classification. Classification is based on both IEC 60904-9 and ASTM E927-10 standards and can be Class A, Class B, or Class C depending on the acceptable tolerances they meet for spectral match to sunlight, uniformity of light source, and stability of light source over time.

The SR-1901PT spectroradiometer can capture the full spectrum from 280-1900nm in a single flash with a 1 msec integration time, to measure both short and long pulse solar simulators for spectral match to AM0 or AM1.5. This allows for solar simulator classification in a fraction of the time it would previously take – done in seconds instead of hours. In addition, the SR-1901PT can be used for uniformity and stability measurements.

The following screen shows the classification of a simulator that meets Class A status. The spectral match report capability is built-into our DARWin SP Data Acquisition software that is included with all our spectrometers and spectroradiometers.



The instrument is compact, portable, and easy to set up and use. Features include:

- Detectors: One 512 element UV-enhanced silicon photodiode array and one 256 element TE-cooled extended InGaAs photodiode array
- Adjustable integration and scan averaging time
- Bluetooth I/O connection
- Internal phototrigger with SMA-905 port
- 0-100 millisecond trigger delay increment
- External TTL triggering input port $\leq 5\mu\text{sec}$ trigger jitter
- Photodetector jitter - $\leq 100\text{nsec}$
- Spectral match for AM0 and AM1.5
- DARWin SP Data Acquisition software includes added features such as spectral match reports, auto-integration and auto-ranging, and automatically saves all spectral data as ASCII files for use with 3rd party software

The unit includes NIST traceable irradiance calibration, 1.2 meter dual fiber optic with custom diffuser and built-in phototrigger, 100-240 volt/50-60hz power supply, and a dustproof, waterproof foam-lined case for shipment and storage. Our easy to use DARWin SP Data Acquisition software is included with each SR-1901PT.

For more information on this and other general photonics spectroradiometers, please visit: http://www.spectralevolution.com/spectroradiometer_SR_1901PT.html

About SPECTRAL EVOLUTION

Established in 2004, SPECTRAL EVOLUTION is a leading manufacturer of laboratory and handheld portable spectrometers, spectroradiometers and spectrophotometers. SPECTRAL EVOLUTION spectrometers are used worldwide for many mission-critical lab and field applications in mining, remote sensing, vegetative studies, ground truthing, environmental and climate studies, developing satellite calibrations, and more, due to their reliable, robust, rugged design and user-friendly one-touch features.

SPECTRAL EVOLUTION maintains a facility in Lawrence, Massachusetts which houses design, prototyping, manufacturing and service facilities for the instruments that it markets and sells worldwide, either through direct sales, OEM sales or through distributor agents.

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