



PRESS RELEASE

Plant Species Identification with a SPECTRAL EVOLUTION Field Spectroradiometer

SPECTRAL EVOLUTION's PSR+ is well-suited for critical species identification in vegetation studies

Lawrence, MA – January 16, 2015 – In vegetation, forest canopy, environmental and other research projects, species identification is a critical starting point. Field spectroradiometers, like the SPECTRAL EVOLUTION PSR+ provide fast, non-destructive species identification *in situ*. Working alone or in combination with hyperspectral or multi-spectral imaging from satellite or airborne sources, these lightweight and portable instruments allow for single user scanning and identification in the field.

In forest and vegetation studies, detailed information not readily extracted from satellite or fly-over images can be gained by mapping an area with a full range, 350-2500 nanometer PSR+ spectroradiometer. Using reflectance measurements, researchers can discriminate between species by examining distinctive absorption features in the full spectrum such as moisture content, color variation, lignin/cellulose values, and more.

Spectral resolution of our PSR+ 3500 model is enhanced for high resolution scans:

- $\leq 3.0\text{nm}$ @ 700nm (FWHM)
- $\leq 8.0\text{nm}$ @ 1500nm (FWHM)
- $\leq 6.0\text{nm}$ @ 2100nm (FWHM)

The PSR+ also offers improved electronic control circuitry for best-in-class noise equivalence radiance (with 4° lens):

- $\leq 0.5 \times 10^{-9} \text{ W/cm}^2/\text{nm}/\text{sr}$ @ 400nm
- $\leq 0.8 \times 10^{-9} \text{ W/cm}^2/\text{nm}/\text{sr}$ @ 1500nm
- $\leq 1.0 \times 10^{-9} \text{ W/cm}^2/\text{nm}/\text{sr}$ @ 2100nm

The PSR+ provides for easy field use with auto-shutter, auto-exposure, and auto-dark exposure for one-touch operation. With no moving optics and its improved optical path, it

is designed for field reliability under a broad range of field conditions. Three photodiode arrays include a 512 element silicon detector and two 256 element TE-cooled extended wavelength array InGaAs detectors covering the 350-2500nm spectral range, all carefully selected and matched for optimum performance.

For more information visit:

http://www.spectralevolution.com/spectroradiometer_PSR_plus.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.

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