



PRESS RELEASE

Measuring moisture in soil with a field spectroradiometer

The PSR+ can measure different soil properties in a single scan, including organic and inorganic content, salinity, soil mineralogy, and moisture content.

Lawrence, MA – January 7, 2016 – Measuring the moisture content in soil can provide critical information on soil and vegetation health – especially useful in applications like crop irrigation management. Proximal soil analysis using a field spectrometer or spectroradiometer, like Spectral Evolution’s PSR+, provides a window into soil and vegetation conditions. By taking *in situ* measurements rapidly and without preparing or affecting the sample, spectral information related to the main water features found at 1450-1460nm and 1920-1930nm can provide information on soil water content and be used to derive data on canopy and leaf health.

The PSR+ features:

- Fast, full spectrum 350-2500nm measurement with just one scan
- High resolution and high sensitivity for clean and accurate spectra
- Autosshutter, autoexposure, and auto-dark correction before each new scan for easy, one-touch operation
- Small and lightweight with rechargeable Li-ion batteries for field operation – half the weight of competitive instruments
- Reliable field performance with an all photodiode array platform and no moving optical parts to fail
- Single user operation with optional rugged handheld GETAC microcomputer that provides a sunlight readable screen plus the ability to tag spectra with GPS, digital camera images, and audio notes
- Standalone operation with 1,000 scan storage

The PSR+ is equipped with the exclusive DARWin SP Data Analysis software package so you can take advantage of the following analysis features:

- Automatically saves data as an ASCII file for easy use with 3rd party software – no pre-processing is necessary
- Collect reference or target data with a single click
- Display reflectance/transmittance data (percentage) or absorbance (logarithmic) versus wavelength
- Access 19 vegetation indices through the DARWin SP software – including water-related indices
- Optional EZ-ID software compares a target sample against a library of known samples
- Custom library module allows you to build your own spectral database as you scan

For more information, visit:

http://www.spectralevolution.com/applications_moisture_soil.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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