



PRESS RELEASE

Evaluation of soil properties using a full range field spectroradiometer.

The PSR-3500 field, portable spectroradiometer from SPECTRAL EVOLUTION can be used to measure water, carbon, nitrogen, and more in soil.

Lawrence, MA – June 11, 2013 – NIR spectroscopy is an excellent tool for evaluating soil properties. The PSR-3500 full range, field portable spectroradiometer provides scientists and researchers with a relatively simple, non-destructive, reliable, fast, and accurate method for measuring total carbon, inorganic carbon, organic matter, total nitrogen, mineralized nitrogen, clay, silt, sand, moisture, pH, cation exchange capacity (CEC), and much more. Lightweight and rugged, the PSR-3500 provides for soil analysis in the field to categorize soil/land changes over large or small areas.

Soil measurement applications can include:

- Measuring topsoil fertility
- Estimating erosion risks
- Measuring hydraulic properties
- Analyzing soil degradation
- Soil mapping and monitoring
- Crop monitoring during growth cycles
- Measuring the presence, amount, and effect of fertilizer in the soil

The PSR-3500 features:

- Fast, full spectrum 350-2500nm measurement with just one scan
- Autoshutter, 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 gratings that can jam unexpectedly
- Single user operation with optional rugged handheld 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
- Superior signal-to-noise ratio with faster scan times and better reflectance measurement

The PSR-3500 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
- Single and multiple spectral plots available
- Compare current scans against libraries

For more information, visit:

http://www.spectralevolution.com/portable_spectroradiometer_soil.html

Or download our soils analysis application note:

http://www.spectralevolution.com/files/Soils_App_Note_0513.pdf

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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