



## **PRESS RELEASE**

**Soil mapping using a full range field spectroradiometer.**

**The PSR+ field, portable spectroradiometer from SPECTRAL EVOLUTION can be used to measure critical soil properties.**

*Lawrence, MA – May 8, 2015* – Soil mapping is an important technique for evaluating, conserving, and improving soil characteristics. *In situ* collection of spectra using a field spectroradiometer such as the PSR+ from SPECTRAL EVOLUTION is key for a range of soil mapping activities from ground truthing hyperspectral data to measuring soil characteristics that include:

- Soil moisture
- Soil texture
- Mineral identification especially of clays
- Organic matter in the soil
- Salinity
- Degradation and contamination
- Hydraulic properties including erosion risk
- Topsoil fertility
- Total and mineralized nitrogen
- Cation exchange capacity (CEC)

The PSR+ features:

- Fast, full spectrum 350-2500nm measurement with just one scan
- Highest resolution and sensitivity in a portable instrument
- 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 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

- DARWin SP Data Acquisition software automatically saves spectra and data to ASCII file format for use with other analysis software
- Optional EZ-ID sample identification software with Custom Library Builder module to create your own soil reference library from known samples

For more information, visit:

[http://www.spectralevolution.com/applications\\_soil\\_mapping.html](http://www.spectralevolution.com/applications_soil_mapping.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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