



PRESS RELEASE

Analyzing Wheat Crop Health with a Field Spectroradiometer

PSR-1100 and PSR-1100F can provide critical information on wheat health using *in situ* measurements

Lawrence, MA – April 30, 2015 – Measurements of a wheat canopy taken with a field spectroradiometer like the PSR-1100 or PSR-1100F, can provide data on protein, lignin, cellulose, water, sugar, starch, chlorophyll content and more. With these spectroradiometers from SPECTRAL EVOLUTION, spectral reflectance measurements provide insights for physiological wheat trait selection, estimated crop yield for agricultural planning, monitoring of crop stress, irrigation and nutrient planning, and potential early diagnosis and control of crop pests.

With the PSR-1100 and PSR-1100F, NIR spectroscopy is fast, easy-to-use, and completely harmless to the crop sample. Spectra scanned in the field can be analyzed to:

- Determine the photosynthetic area and activity of a wheat canopy
- Measure health and growth
- Estimate potential grain yield
- Monitor plant stress through measurement of chlorophyll content
- Check for nutrient deficiencies and over-fertilization
- Check for moisture content and fine-tune irrigation strategies

The PSR-1100 offers a fixed 4° FOV optic while the PSR-1100F provides a detachable fiber optic cable for connection to a wide array of FOV lenses, irradiance diffusers, sample probes and more. They both feature:

- 320-1100nm spectral range
- Keypad and LCD display—stores 2500 scans without a computer
- One-touch operation with auto-exposure and auto-shutter
- Compact, lightweight, handheld unit—less than four pounds
- Snap-in rechargeable battery
- Built-in laser targeting

- Easy-to-use DARWin SP Data Acquisition software saves scans as ASCII files for use with third party software, including chemometrics, without pre-processing

For more information:

http://www.spectralevolution.com/applications_wheat.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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