



PRESS RELEASE

RS-5400 Full Range High Resolution Spectroradiometer

Lawrence, MA – June 5, 2018 –The RS-5400 provides high resolution and high sensitivity for remote sensing applications for *in situ* field measurements. Applications include:

- Vegetation studies
- Environmental research
- Soil analysis, mapping and profiling
- Ground truthing
- Geological remote sensing
- Solar radiance and irradiance research
- Species identification
- Lab applications including materials identification

The RS-5400 is designed for field work with a rugged chassis, no moving optical parts, and rugged metal clad fiber optic cable that's field replaceable. It features one touch operation with auto-dark current and auto-exposure. Communications include wireless Bluetooth and USB connection. It includes DARWin SP Data Acquisition software that is Windows 7/8/10 compatible and saves all files as ASCII.

The RS-5400 has the following specifications:

- Spectral range 350-2500nm
- Photodiode Arrays:
 - 512 element UV-Enhanced silicon detector (VIS-NIR)
 - 512 element TE-cooled InGaAs detector (SWIR 1)
 - 512 element TE-cooled extended InGaAs detector (SWIR 2)
- Minimum scan speed: 100milliseconds
- Spectral resolution
 - 2.8nm @ 700nm
 - 6nm @ 1500nm
 - 6nm @ 2100nm

- Noise Equivalence Radiance (with 1.5 meter fiber optic)
0.5x10⁹ W/cm²/nm/sr @ 400nm
0.3x10⁹ W/cm²/nm/sr @ 1500nm
2.5x10⁹ W/cm²/nm/sr @ 2100nm

The RS-5400 provides high resolution/high sensitivity in a portable spectroradiometer for field or laboratory use. The unit is lightweight and runs off a 100-240V AC Universal 50-60Hz power supply or lithium-ion batteries.

For more information, visit:

<https://spectralevolution.com/products/hardware/field-portable-spectroradiometers-for-remote-sensing/rs-5400-portable-spectroradiometer/>

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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