



26 Parkridge Rd. Suite 104, Haverhill, MA USA  
978-687-1833 | [www.spectralevolution.com](http://www.spectralevolution.com)

## PRESS RELEASE

### THE FUTURE OF FIELD SPECTROSCOPY

HAVERHILL, Mass. (December 13, 2021) -- **The future of field spectroscopy is now.** Spectral Evolution, the leading Massachusetts-based spectroradiometer manufacturer, launches a new high-resolution, high-sensitivity UV-VIS-NIR spectroradiometer specifically engineered for fieldwork. The new *NaturaSpec*<sup>TM</sup> spectroradiometer for remote sensing applications offers the best signal-to-noise performance in a field instrument on the market today, giving users the ability to collect lab-quality data *in situ* without the need for sample preparation.

NaturaSpec was developed as a portable version of Spectral Evolution high-resolution laboratory spectroradiometers. This instrument joins a full line of field-portable spectroradiometer models, including the PSR-1100f, RS-3500, PSR+, and RS-8800. NaturaSpec rounds out this line with the highest sensitivity for the best quality data of any field-portable spectroradiometer on the market.

From optics to enclosure, the entirety of the **new NaturaSpec** spectroradiometer is engineered for fieldwork:

- Solid-state photodiode array detectors with no moving optical parts come standard on a rugged chassis to ensure toughness and provide **excellent stability and repeatability of measurement in the field.**
- In case of damage to the fiber optic cable, you can **replace it right in the field** - no need to send the instrument back to the manufacturer. Rugged, metal-clad fiber optic cables with a keyed connection ensure **no loss of calibration** if replacement is needed.
- The redesigned, field-ready enclosure features exterior bumpers, a carrying handle, and a dust-proof case coated in a high visibility **red** color providing **peace of mind as you carry your instrument on field campaigns.**
- Best in class, TE-cooled photodiode array detectors are carefully selected and tested to ensure the **highest sensitivity and spectral resolution in the infrared** range.
- DARWin<sup>TM</sup> Data Acquisition software ensures that every spectral scan collected is optimized for the **best signal-to-noise ratio possible.** Dark-current correction is automatically applied to every scan, and each detector is independently exposed to the signal at the optimum integration time. No tedious manual optimization is ever required to ensure outstanding, repeatable data.

## FOR IMMEDIATE RELEASE

“The NaturaSpec is the first spectroradiometer that brings the high spectral resolution of laboratory instruments to field measurements. Its innovative and rugged design ensures high-quality and repeatable spectral data. It offers the optimum balance between spectral resolution and sensitivity, resulting in the best signal-to-noise ratio performance of any other spectroradiometer on the market,” says **Nicolas Venjean, Sales & Marketing Manager at Spectral Evolution**. “Spectral Evolution is excited to bring this technology to the remote sensing community who will undoubtedly adopt this new standard of spectral data quality for years to come.”

Every NaturaSpec is **meticulously designed, manufactured, and calibrated at our facility in Haverhill, Massachusetts** to ensure maximum performance and reliability.

### NATURASPEC PERFORMANCE & TECHNOLOGY

<b>Spectral Range</b>	350-2500nm		
<b>Spectral Resolution</b>	2.7nm @ 700nm	5.5nm @ 1500nm	5.8nm @ 2100nm
<b>Spectral Sampling Bandwidth (nm)</b>	0.6 @ 700nm	1.7 @ 1500nm	1.2 @ 2100nm
<b>Detector(s)</b>	1024-element UV-enhanced Si Array Two 512-element extended TE-cooled InGaAs Arrays		
<b>Calibration</b>	Factory calibrated for radiance/irradiance using NIST traceable sources		
<b>Noise Equivalence Radiance W/cm<sup>2</sup>/nm/sr (1.2m fiber optic)</b>	0.3x10 <sup>-9</sup> @ 400nm	0.1x10 <sup>-9</sup> @ 1500nm	2.5x10 <sup>-9</sup> @ 2100nm
<b>Software Included</b>	DARWin™ SP Data Acquisition		
<b>Power</b>	7.4V, 28W		
<b>Dimensions (in/mm)</b>	12.4 x 8.7 x 4.4 / 314.9 x 220.9 x 111.7		
<b>Weight (lbs/kg)</b>	12.6 / 5.7		
<b>Interface</b>	USB, Bluetooth		
<b>Minimum Scan Speed</b>	100ms		
<b>Wavelength Reproducibility (nm)</b>	0.1		
<b>Wavelength Accuracy (nm)</b>	±0.5 bandwidth		
<b>Automatic Exposure</b>	Yes		
<b>Shutter for Dark Scans</b>	Yes		

## FOR IMMEDIATE RELEASE

### AVAILABILITY

The new NaturaSpec™ spectroradiometer is now available worldwide and sold as a bundle so you can gather your mission-critical data without delay. **The NaturaSpec remote sensing bundle includes:**

- NaturaSpec spectroradiometer
- DARWin™ SP Data Acquisition software
- Ergonomic pistol grip fiberoptic holder with external triggering and Picatinny rail
- 5x5 inch reflectance standard in a protective, tripod-mountable metal case
- Extended capacity rechargeable battery and battery charger
- Pelican rigid foam-lined protective case
- Custom padded backpack
- 1.5-meter metal-clad fiber optic with SMA-905 input connector - removable- 25° FOV
- NIST-traceable calibration of 25° FOV fiber optic cable

*Bundled accessories are subject to change depending on availability. NaturaSpec is compatible with all existing Spectral Evolution accessories.*

### ABOUT SPECTRAL EVOLUTION

Established in 2004, Spectral Evolution is a leading manufacturer of laboratory and field-portable spectrometers and spectroradiometers.

Due to their reliable, robust, and rugged design and user-friendly one-touch features, Spectral Evolution instruments are used worldwide for many mission-critical lab and field applications in mining, remote sensing, vegetative studies, ground-truthing, environmental and climate studies, satellite calibrations, and more.

Spectral Evolution maintains a facility in Haverhill, Massachusetts, which houses design, prototyping, manufacturing, and service facilities for the instruments marketed and sold worldwide, either through direct sales or distributor agents.

### CONTACT

Nicolas Venjean  
Sales & Marketing Manager  
nicolas.venjean@spectralevolution.com

978-208-5875