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PRESS RELEASE:
THE NEW STANDARD FOR REMOTE SENSING KEEPS GROWING!

HAVERHILL, MA. (November 1, 2024) -- **The future of field portable spectroscopy has never been more powerful.** Spectral Evolution, the leading field-portable spectroradiometer manufacturer, is launching an all new high-resolution, high-sensitivity, UV-VIS-NIR spectroradiometer, specifically engineered for extended fieldwork.

The NaturaSpec™ Plus is the ultimate instrument for the remote sensing scientist. Eliminating the uncertainties usually associated with the calculation of the field of view and the targeting of the samples. Besides spectral data, the instrument also provides a real-time video feed of the actual field of view of the fiber optic or lens attachment. A picture of the field of view is captured with every measurement, along with the angle and distance to the target, and the GPS coordinates.

The new NaturaSpec Plus spectroradiometer for remote sensing applications offers the best spectral resolution and signal-to-noise performance in any field instrument on the market today, giving users the ability to collect lab-quality data in situ over the spectral range of 350-2500nm.

The NaturaSpec Plus is the ultimate instrument to build high-resolution libraries and to push the limits of spectral analysis for remote sensing applications including environmental monitoring, climate change research, crop and soil science, agriculture, carbon studies, geological mapping, ground truthing and more.

This instrument joins a full line of field-portable spectroradiometer models, including the NaturaSpec, NaturaSpec Ultra, RS-3500, PSR+, PSR-1100f, and RS-8800.

From optics to enclosure, the entirety of the new NaturaSpec Plus spectroradiometer is engineered for fieldwork with these new instrument features as well as Spectral Evolution's exclusive Sensaprobe+:

- Sensaprobe+ with a 6" touchscreen Windows tablet and DARWin software
- Field Swappable Internal Battery
- Smart Power Switch - The NaturaSpec Plus has been designed with a smart power switch to manage how the instrument is powered between external power and an internal battery. You can now use the instrument with two batteries connected (internal and external) and double the operation time in the field. The instrument will use the external battery first and then when drained seamlessly switch over to the internal battery.
- Quick release fiber optic mount.
- Ergonomic grip for comfort and control by increasing support at the palm.

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- A built-in inclinometer that allows the user to monitor scan angles and notifies the user when they are at nadir, so they know it's ok to scan.
- A built-in camera for real-time targeting and capturing what is being scanned.
- Ultrasonic distance sensor measures the distance from the target and automatically shows the viewer the exact target area, accounting for field-of-view. The camera image is adjusted to automatically represent exactly what is being scanned.
- Trigger activation to start a scan.
- Tripod mountable to allow multi-scan consistency in the field or lab.

The NaturaSpec Plus with the Sensaprobe+ allows for consistent measurements by any user at any experience level to ensure that measurements are taken correctly in the field for research applications. See exactly what you are scanning with the embedded camera. It can also be used for vicarious calibration to validate satellite or flyover hyperspectral and multispectral data being used in research.

The NaturaSpec Plus not only brings the highest quality of spectral measurements to the field, but also facilitates the work of remote sensing scientists by eliminating errors associated with targeting and field of view calculations. It also reduces the time required for field campaigns by automatically recording important meta data such as distance to target, field of view, and GPS coordinates.

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

NATURASPEC PLUS PERFORMANCE & TECHNOLOGY

Model	NATURASPEC PLUS		
Spectral Range	350-2500nm		
Spectral Resolution	2.7nm @ 700nm	5.5nm @ 1500nm	5.8nm @ 2100nm
Spectral Sampling Bandwidth (nm)	Data output in 1nm increments; 2151 channels reported		
Detectors	1024-element UV-enhanced Si Array 512-element TE-cooled InGaAs Array 512-element extended TE-cooled InGaAs Arrays		
Calibration	Spectral and radiometric calibration for radiance/irradiance measurements using NIST traceable sources.		
Noise Equivalence Radiance W/cm²/nm/sr (1.2m fiber optic)	$0.3x10^{-9}$ @ 400nm	$0.1x10^{-9}$ @ 1500nm	$2.5x10^{-9}$ @ 2100nm
Software Included	DARWin™ Data Acquisition		
Power	14.4v | 28w		
Dimensions	317.5 x 226.1 x 86.4 (mm) 12.5 x 8.9 x 3.4 (in))		
Weight	4.5kg | 9.9lbs (without internal battery) 5kg | 11lbs (with internal battery)		
Interface	USB, Wireless Connection		
Minimum Scan Speed	100ms		
Wavelength Reproducibility	0.1nm		
Wavelength Accuracy (nm)	±0.5Bandwidth		
Automatic Data	Data Optimization | One Touch Operation | Automatic Exposure | Detector Integration | Dark Current Correction		
Input	1.5 m fiber optic (25° field of view); optional fore optics and optional longer fiber optic cables available		
Operational temperature range (°C)	0 to 40 degrees		
Maximum Radiance	VNIR 2x Solar | SWIR 10x Solar		

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AVAILABILITY

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

- NaturaSpec Plus Spectroradiometer
- DARWin Data Acquisition Software
- 1.5m fiber optic cable with an SMA-905 Connector Calibrated for Radiance
- Sensaprobe+ with quick release fiber optic mount
- Compact tablet controller
- Lithium-ion Rechargeable Battery with Charger, Case & Power Cable
- 14V Power Supply
- USB Cable
- Pelican® Watertight Protective Case with Custom Foam
- Custom Padded Backpack for Field Work
- 5”x5" White Plate with Protective Case

ABOUT SPECTRAL EVOLUTION

Established in 2004, Spectral Evolution is the leading manufacturer of laboratory and field- portable UV-Vis-NIR spectrometers and spectroradiometers.

Thanks 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.

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