

Analytik contact:  
Ksenia Semina, +44(0)759 571 0508

Media contact:  
Jezz Leckenby, +44(0)1799 521881

## **Analytik announce the availability of the new ASD FieldSpec 4 High Resolution NG portable spectroradiometer**

*Cambridge, UK, 25<sup>th</sup> August 2015: Analytik, leading suppliers of innovative analytical instrumentation, announce the availability of ASD's new FieldSpec 4 High Resolution NG portable spectroradiometer. This is designed to meet the specifications of NASA's next generation of airborne visible/infrared imaging spectrometer.*

AVIRIS-NG is an acronym for the Airborne Visible InfraRed Imaging Spectrometer - Next Generation. It has been developed by government laboratories in the USA, NASA and JPL, to provide continued access to high signal-to-noise ratio imaging spectroscopy measurements in the solar reflected spectral range. To complement this, ASD have introduced their FieldSpec 4 Hi-Res NG system to provide the optimal resolution match for the best possible relationship to AVIRIS-NG. The spectral resolution achievable is now 6 nm.

The new [FieldSpec 4 Hi-Res NG spectroradiometer](#) provides enhanced spectral resolution to support accurate calibration and image classification analysis with the next generation high spectral resolution hyperspectral sensors. Higher resolution hyperspectral sensors yield greater precision for [remote sensing](#) classification applications, producing more information from every pixel generated in an image than ever before. In order to take advantage of the full potential of these next generation sensors, measurements from ground based instrumentation need to meet or exceed the sensor's spectral resolution. In the absence of this resolution equality, data is interpolated during post processing and vital spectral information can be smoothed and lost.

The enhanced spectral resolution of the FieldSpec 4 Hi-Res NG meets the rigorous demands of the next generation hyperspectral imaging systems such as AVIRIS-NG and HySpex ODIN-1024.

In addition to superior spectral resolution, the FieldSpec 4 Hi-Res NG, like all ASD spectroradiometers, incorporates fast scanning gratings and graded index InGaAs photodiode SWIR detectors to provide the smallest available spectral sampling interval in a field portable device with 1,875 measured wavelengths over the full 350 nm to 2,500 nm spectral range, ensuring detection of even the most subtle spectral features. This combination of high spectral resolution and small spectral sampling interval provides superior performance when accuracy really matters.

The higher resolution of the FieldSpec 4 Hi-Res NG will be useful for many additional applications for both contact measurements and non-contact measurements including mineral mining, studying soils properties and agricultural land/canopy mapping.

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Speaking about the new generation FieldSpec 4 product, Analytik product specialist, Hiran Vegad, says "the new FieldSpec 4 is the 'catch-all-super' spectroradiometer that covers contact and non-contact measurements of all previous ASD spectroradiometers and spectrometers. The exceptional speed, sensitivity, ruggedness, portability and superior spectral quality of the FieldSpec 4 Hi-Res NG, now with higher resolution, provides the ultimate instrument opening the door for many Visible/NIR applications that previously were not possible with one instrument."

To find out more about Analytik and their range of spectral imaging, portable and handheld spectroscopy systems, please visit: <http://www.analytik.co.uk/>.

## Attachment:



*FieldSpec being used for rock mineral analysis*

For a high resolution copy of the image, either right click to download or contact Jezz Leckenby at Talking Science.

**About...Analytik** are leading suppliers of innovative analytical instrumentation to the UK and Ireland. Delivering cutting-edge solutions from global technology providers, coupled with responsive service and flexibility has enabled Analytik to build an impressive customer base since forming in 2003. Analytik's partners include Agilent Technologies, ASD Inc.(a PANalytical company), SciAps, Microfluidics, Sentronic, GL Optic, GeSiM, CPS Instruments, Videometer, Headwall Photonics, Quantum Northwest and Schmidt + Haensch. Solutions include portable and handheld spectrometers (FTIR, NIR & Raman), spectral imaging systems, light measurement systems, non-contact nanolitre dispensing systems, nanoparticle size analysers, high shear fluid processors, sample temperature control systems, polarimeters and refractometers.

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**For further information:** Please contact Analytik direct or their marketing agency:

Analytik Limited  
2 Cygnus Business Park  
Middle Watch, Swavesey  
Cambridge CB24 4AA  
T +44(0) 759 571 0508  
F +44(0) 870 135 2488  
[www.analytik.co.uk](http://www.analytik.co.uk)  
[ksema.semia@analytik.co.uk](mailto:ksema.semia@analytik.co.uk)

Talking Science Limited  
39 de Bohun Court  
Saffron Walden  
Essex CB10 2BA UK  
T +44(0)1799 521881  
M +44(0)7843 012997  
[www.talking-science.com](http://www.talking-science.com)  
[jezz@talking-science.com](mailto:jezz@talking-science.com)