



PRESS RELEASE

Using a high resolution spectrometer for coal exploration

Lawrence, MA – September 1, 2017 – Spectroscopy can be used in coal exploration to identify coal as well as related minerals including: quartz, kaolinite, illite, montmorillonite, chlorite, pyrite, calcite, and siderite. Coal exhibits important spectral absorption features at 680, 1429-1441, 1915 and 2296-2300 nanometers.

Spectral Evolution's SR-6500 with three thermoelectrically cooled photodiode arrays delivers the ultimate in high resolution and stable performance for coal exploration. The SR-6500 offers the ultimate in high resolution in a portable instrument:

- 1.5nm @ 700nm
- 3.0nm @ 1500nm
- 3.8nm @ 2100nm

The SR-6500 can be used with bare fiber or field of view fiber-attached lenses for field outcrop analysis or with our ILM-660 100 Watt tungsten halogen light source or for lab and core shack analysis the Miniprobe contact probe with a 3mm spot size and built-in light source. With the Miniprobe or ILM-660, the SR-6500 is well-suited for capturing high resolution scans of coal pathfinder minerals or coal itself. These scans will show additional features not seen with standard resolution spectrometers.

Using the SR-6500 with EZ-ID, a geologist can quickly identify an alteration mineral that may not be readily identifiable by sight, matching an unknown sample against a known spectral library. EZ-ID allows the geologist to select specific spectral regions to fine-tune the matching process for a more precise ID. If the geologist wants to look at a particular absorption feature, the geologist can highlight that or other features and EZ-ID provides new matches. EZ-ID includes a Library Builder module for the inclusion of project and location specific scans of known samples for comparison with target samples.

EZ-ID works right from the DARWin SP Data Acquisition software included with all SPECTRAL EVOLUTION spectrometers and spectroradiometers. All spectra collected with an SR-6500 are saved as ASCII files for easy import into other 3rd party analysis software for mine planning, mineral mapping and 3D imaging.

For more information:

http://www.spectralevolution.com/applications_coal.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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