



PRESS RELEASE

EZ-ID Is Now Available with the New GeoSPEC High Resolution Library

Samples all scanned with ultra-high resolution SR-6500 field spectroradiometer

Lawrence, MA – January 19, 2018 – SPECTRAL EVOLUTION’s EZ-ID mineral identification software is now available with the GeoSPEC High Resolution Library. The library includes known samples from the Colorado School of Mines Museum collection.

There are more than 237 individual minerals and over 600 scans with multiple scans of different minerals. With the availability of the GeoSPEC High Resolution Library, EZ-ID software users have access to three libraries (in addition to GeoSPEC, the USGS and SpecMIN libraries are available) for a total of 2700 spectra for 1047 minerals.

EZ-ID software can be used for real time mineral identification with outcrops, in pits, with hand samples, and is especially useful in fast and accurate core logging applications. EZ-ID can perform spectral matching of your unknown target to your library sample in as little as two seconds. EZ-ID features:

- Fast and accurate identification of an unknown mineral to a known library sample
- Easy to use – just collect a target scan using the oreXpress or SR-6500 spectrometer and see immediate match results in real time
- Simple, consistent user interface
- Include or exclude spectral match regions of interest for optimal results, especially helpful in identifying multiple minerals in mixtures
- Fast scanning for optimum field work or core shack logging – save money by drilling fewer holes in the field and sending fewer samples for assays from the core shack

All scans of the mineral samples from the Colorado School of Mines Museum collection were performed with an SR-6500 ultra-high resolution spectroradiometer.

Resolution at FWHM for the SR6500 is:

- 1.5nm @ 700nm

- 3.0nm @ 1500nm
- 3.8nm @ 2100nm

Resolution is achieved using three high density solid state thermoelectrically cooled photodiode arrays:

- 1024 element TE-cooled silicon photodiode array detector (VIS-NIR)
- 512 element TE-cooled InGaAs photodiode array detector (SWIR 1)
- 512 element TE-cooled extended InGaAs photodiode array detector (SWIR 2)

The SR-6500 features high sensitivity with the following Noise Equivalence Radiance (NER) performance with a 1.5 meter fiber optic:

- 0.8×10^{-9} W/cm²/nm/sr @ 400nm
- 0.3×10^{-9} W/cm²/nm/sr @ 1500nm
- 5.8×10^{-9} W/cm²/nm/sr @ 2100nm

With our Custom Library Builder software module, EZ-ID also allows you to scan known samples and quickly build a custom library for a particular project, mineral, location, and more. You can select pre-defined metadata fields or define your own.

For more information, visit http://www.spectralevolution.com/EZ-ID_libraries.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.

Press contact

Mo Kashdan

Marketing & Sales

978-687-1833

Maurice.kashdan@spectralevolution.com

SPECTRAL EVOLUTION

1 Canal Street, Unit B1

Lawrence, MA 01840 USA

www.spectralevolution.com

