



## **PRESS RELEASE**

### **EZ-ID Adds Scalars to Better Characterize Alteration**

*Lawrence, MA – February 21, 2018* – SPECTRAL EVOLUTION’s EZ-ID mineral identification software is now available with spectral scalars that can enhance the geologist’s understanding of crystallinity changes, alteration pattern shifts and geochemical conditions.

EZ-ID now supports spectral scalars for Al-OH bonds, kaolinite crystallinity (Kx) illite spectral maturity (ISM), chlorite spectral maturity (CSM), Mg-OH bonds, Fe-OH bonds, Fe3t (mineral type), Fe3i (mineral intensity) and Al-Fe-Mg bonds.

#### **Al-OH**

The Al-OH absorption feature at 2200nm wavelength position provides indication of geochemical conditions at the time of alteration. 2160—2240 wavelength variations.

#### **Kx**

Kaolinite crystallinity influences the shape of the Al-OH feature. A Kx greater than 1 indicates kaolinite produced by weathering; less than 1 is associated with kaolinite produced by high temperature alteration events. The lower the Kx, the higher the formation temperature.

#### **ISM**

Values greater than 1 indicate a low grade metamorphic illite; less than 1— illites produced at higher temperatures.

#### **CSM**

Values greater than 1 indicate a low metamorphic grade chlorite; less than 1 are chlorites produced at a higher temperature alteration event.

#### **Mg-OH**

The wavelength position of this feature near 2350nm indicates geochemical conditions at the time of alteration.

#### **Fe-OH**

The wavelength near 2260nm position of this feature indicates geochemical conditions at the time of alteration.

#### **Fe3t**

Hydroxide-type Fe+3 minerals typically have Fe3t values greater than 900nm; oxide type Fe+3 minerals have vales less than 900nm.

**Fe3i**

The higher the Fe3i value the more intense the FE+3 absorption.

**Al-Fe-Mg**

Reports the wavelength of the deepest absorption feature of these three. Features centered in 2160-2370nm range.

The scalars provide an extra toolset for geologists identifying alteration zones and the mineral changes associated with them.

In addition to using scalars and EZ-ID's three mineral libraries for mineral identification, 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\\_scalars.html](http://www.spectralevolution.com/EZ-ID_scalars.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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