

SPECTRAL EVOLUTION

Spectrometers for Mining



SR-6500



oreXpress

Spectral Range	350-2500nm	350-2500nm
Spectral Resolution	1.5nm @ 700nm 3.0nm @ 1500nm 3.8nm @ 2100nm	2.8nm @ 700nm 8nm @ 1500nm 6nm @ 2100nm
Si Photodiode Detector	1024 element TE-cooled Si array (350-1000nm)	512 element enhanced Si array (350-1000nm)
InGaAs Photodiode Detectors (TE-cooled)	512 element TE-cooled InGaAs array (1000-1600nm) 512 element TE-cooled extended InGaAs array (1600-2500nm)	256 element extended wavelength InGaAs array (1000-1900nm) 256 element extended wavelength InGaAs array (1900-2500nm)
Sensitivity Noise Equivalence Radiance (NER)	0.8x10 ⁹ W/cm ² /nm/sr@400nm 0.3x10 ⁹ W/cm ² /nm/sr@1500nm 5.8x10 ⁹ W/cm ² /nm/sr@2100nm	0.8x10 ⁹ W/cm ² /nm/sr@400nm 1.2x10 ⁹ W/cm ² /nm/sr@1500nm 1.8x10 ⁹ W/cm ² /nm/sr@2100nm

SR-6500—ultra-high resolution spectrometer with high sensitivity for high resolution, accurate scans for mineral identification and analysis. Crucial for seeing additional features and unmixing different minerals from samples.

oreXpress—high resolution/sensitivity rugged field portable unit with no moving optical parts for unsurpassed reliability.

EZ-ID—mineral identifications software compares target scans against three libraries—USGS and the optional SpecMIN and GeoSPEC libraries for a total of 2600 spectra for more than 1000 minerals. Includes match regions and scalars for fine-tuning mineral analysis.

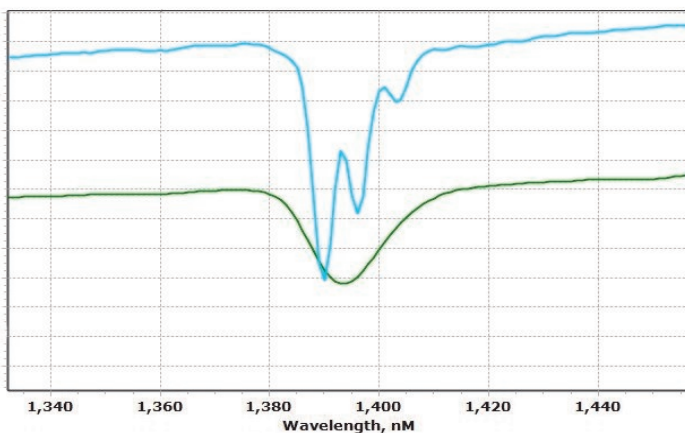


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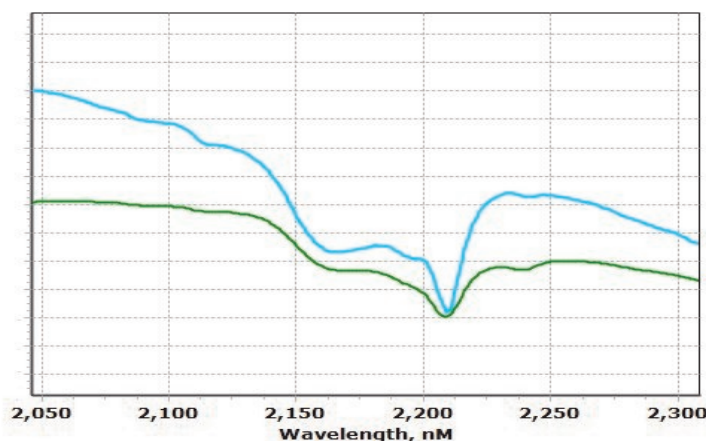
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Comparison scans of the SR-6500 and the oreXpress



A close-up of scans taken with the SR-6500 and the oreXpress field spectrometer of a talc sample. Here you can see the dramatic difference the higher resolution capabilities of the SR-6500 bring to the spectra. The spectra shows a distinct triplet where the standard spectrometer shows a single shallow absorption feature.

SR-6500 is blue scan. oreXpress is green scan. Scans offset for comparison.



A close-up of scans taken with the SR-6500 and an oreXpress field spectrometer of a clay sample primarily composed of kaolinite. The spectra from the SR-6500 not only shows the major absorption features at a higher resolution, it also uncovers additional spectral features not seen in the standard scan.

SR-6500 is blue scan. oreXpress is green scan. Scans offset for comparison.



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