

# SPECTRAL EVOLUTION

## Gold Exploration

SPECTRAL EVOLUTION's oreXpress and ultra-high resolution SR-6500 with EZ-ID software for mineral identification are well-suited for gold exploration. These rugged, field spectrometers can be used in field mapping and mineral identification for many different gold deposit types, including:

- ◆ Paleoplacer deposits
- ◆ Massive sulfides
- ◆ Hot spring deposits
- ◆ Low sulfidation
- ◆ High sulfidation
- ◆ Breccia pipes
- ◆ Porphyry gold deposits
- ◆ Skarns
- ◆ Orogenic deposits
- ◆ Carbonate placements
- ◆ Greenstone belts

With our oreXpress and SR-6500 spectrometers and EZ-ID software, geologists can scan and identify common alteration minerals, such as:

- ◆ For low sulfidation: illite, kaolinite, chlorite, illite/smectite, buddingtonite, epidote, montmorillonite, zeolite, quartz, calcite, hematite
- ◆ For high sulfidation: alunite, opal, dickite, pyrophyllite, diaspora, zunyite, topaz, illite, kaolinite, chlorite, epidote, quartz, montmorillonite, goethite, jaosite, hematite
- ◆ For orogenic gold: muscovite, paragonite muscovite, roscoelite, illite, kaolinite, quartz, siderite, ankerite, calcite, dolomite, carbonates

Using EZ-ID with the USGS spectral library, the SpecMIN™ library, or the GeoSPEC library, the software quickly provides accurate matching of an unknown target with a known mineral spectra. With an oreXpress or SR-6500 spectrometer and EZ-ID a geologist can identify minerals indicating gold in real-time, in the field.

Benefits include:

- ◆ Quickly collect a lot of scans
- ◆ Cover more ground in less time for better mapping
- ◆ Collect more accurate data for a more complete picture of the area you are exploring
- ◆ Get results immediately instead of waiting for lab analysis
- ◆ Drill fewer holes with better results
- ◆ Speed-up core shack scanning and logging, accurately identify samples of interest, and save on assay costs

oreXpress and EZ-ID software are trademarks of Spectral Evolution, Inc. SpecMIN is a trademark of Spectral International, Inc.



*oreXpress and SR-6500 spectrometers are ideal for single-user field exploration in gold mining.*



*EZ-ID software identifies minerals in real-time by matching your target spectra against a known spectral library such as the USGS library, SpecMIN library, or GeoSPEC library.*

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