SPECTRAL EVOLUTION’s oreXpress, oreXplorer and oreXpert 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, oreXplorer and oreXpert 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, roscelie, 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, oreXplorer and oreXpert 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

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