oreXpress

oreXplorer

oreXpert

	oreXpress	oreXplorer	oreXpert
Spectral Range	350–2500nm	350–2500nm	350–2500nm
Spectral Resolution	2.8nm (350-1000nm) 8nm @ 1500nm 6nm @2100nm	2.7nm (350-1000nm) 5.5nm @ 1500nm 5.8nm @2100nm	1.5nm (350-1000nm) 3nm @ 1500nm 3.8nm @2100nm
Spectral Sampling Bandwidth	Data output reported in 1nm increments 2151 channels reported	Data output reported in 1nm increments 2151 channels reported	Data output reported in 1nm increments 2151 channels reported
Si Detectors	512 element Si array (350–1000nm)	1024 element Si array (350–1000nm)	1024 element Si array (350–1000nm)
InGaAs Detectors	256 element extended wavelength array (1000–1900nm) 256 element extended wavelength array (1900-2500nm)	512 element extended wavelength array (1000 –1630nm) 512 element extended wavelength array (1630-2500nm)	512 element extended wavelength array (1000 –1630nm) 512 element extended wavelength array (1630-2500nm)
FOV Options	Fiber mounted: 1,2,3,4,5,8,10°	Fiber mounted: 1,2,3,4,5,8,10°	Fiber mounted: 1,2,3,4,5,8,10°
Minimum Scan Speed	100 milliseconds	100 milliseconds	100 milliseconds
Wavelength Reproducibility	0.1nm	0.1nm	0.1nm
Wavelength Accuracy	±0.5 bandwidth	±0.5 bandwidth	±0.5 bandwidth
Communications Interface	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth
Size	8.5x 12x 3.5 in (21.6x30.5x8.9 cm)	12.4x8.7x4.4 in (31.5x22.9x38.7cm)	12.4x8.7x4.4 in (31.5x22.9x38.7cm)
Weight	7.3 lbs (3.31 kg)	11 lbs (4.99 kg)	11 lbs (4.99 kg)
Battery	External Lithium ion; 7.4V	External Lithium ion; 7.4V	External Lithium ion; 7.4V
Battery Operation	Minimum 3 hour operation	Minimum 3 hour operation	Minimum 3 hour operation

About SPECTRAL EVOLUTION

Established in 2004, SPECTRAL EVOLUTION is a leading manufacturer of laboratory and handheld portable spectrometers, spectroradiometers and spectrophotometers for lab and field applications in mining, remote sensing, materials identification and QC, satellite calibrations, and more.

www.spectralevolution.com

SPECTRAL EVOLUTION

26 Parkridge Road, Suite 104
Haverhill, MA 01835 USA
Tel: 978 687-1833 ◊ Fax: 978 945-0372
Email: sales@spectralevolution.com

SPECTRAL EVOLUTION

Gold, Copper, Lithium, Nickel,...

We help you find all these and more !!!

Field Portable Spectrometers for Real-time Mineral Analysis

We help you find what you are looking for...

Identify minerals in the field in real time

With Spectral Evolution **portable spectrometers** and the **EZ-ID software,** geologists can measure and identify samples in seconds, and cover more ground in less time than by using traditional field methods. They can identify different **mineral phases**, work up mineral **alteration maps**, and more accurately identify **mineral pathfinders** for vectoring to **ore deposits.**

Our selection of **probes** and **light sources** allows you to analyze minerals in a variety of shapes and sizes such as core samples, chips, and powders. You can even identify small veins with our 3mm spot-size mini-probe.

With the **EZ-ID mineral identification software** you can:

- Instantly match a target scan against libraries of more than 1,100 known minerals
- Select match regions to focus on particular spectral features and mineral unmixing
- Use scalars to better understand crystallinity changes, alteration patterns and geochemical conditions
- Interface with prediction engines for quantitative chemometrics analysis.

Looking for Gold, Silver, Copper, Nickel, Lithium, Uranium?

Our portable spectrometers and **mineral software libraries** will identify minerals across a wide range of deposit types including epithermals, porphyries, kimberlites, carbonate hosted base metals, shear veins, skarns, and disseminated systems.

Maximize efficiency and throughput

With **real-time mineral identification** in the field, you can explore more territory and make more informed decisions on where to drill and maximize exploration outcomes.

In the core shack you can map alteration and **eliminate unnecessary assays** on cores that show no potential, reduce the time logging takes and build a digital archive of your results.

Portable, Rugged, and Accurate Spectrometers

Rugged & Portable for Field Use

The **oreXpress**, **oreXplorer** and **oreXpert** spectrometers are specifically designed for the harsh requirements of field use. A rugged design with no moving optical components means reliability for field operation. All spectrometers are **portable** and can be carried in a backpack. A **wireless Bluetooth** connection allows you to interface with a tablet or laptop, for real-time analysis in the field. A lithium-ion battery provides a geologist with hours of data collection in the field.

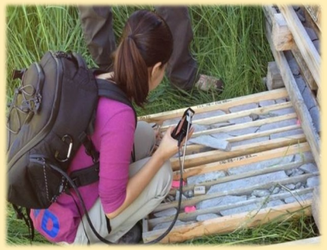
When accuracy matters

The **oreXpress** provides quick reliable mineral analysis with a standard resolution of 3nm.

The **oreXplorer** delivers higher resolution and sensitivity for identifying hard to unmix minerals with similar features.

The **oreXpert** is the **highest resolution** spectrometer on the market. Its 1.5nm resolution allows the distinction of features that help with unmixing and identification of trace minerals.

The ALGIZ® 8X tablet runs on Windows 10 and comes loaded with DarWin SP spectral acquisition software.
It is rugged and convenient for data collection and analysis in the field.



Our 10mm spot-size contact probe and 3mm spot-size mini-probe are rugged and reliable with built-in 5W halogen light sources and an ergonomic design for comfortable field use.

The benchtop reflectance probe has a scratch-resistant sapphire window and a sample compactor for working with chips and powders.

The ILM-660 is a 40W tungsten-halogen illumination source with a removable sapphire window and petri dish for samples.

www.spectralevolution.com