

# Rock Solid Material Measurement for Mining

Real-Time Mineral and  
Elemental Analyzers



# Why SciAps

## Why SciAps For In-Field Geoscience?

SciAps is the only company offering a complete, fully integrated portfolio of in-field geochemical and mineralogical analyzers, giving exploration and mining teams the ability to move seamlessly from elemental data to mineral identification, directly at the drill site, outcrop, or core shed.

## With SciAps, You Can Deploy the Full Range of Field-Ready Technologies

### **X-550 Geochem** XRF

High-performance multi-element geochemistry in a lightweight, rugged handheld

### **X-555 Geochem** XRF

Featuring an industry-leading 55 kV X-Ray tube for superior performance on light rare earth elements and key pathfinder elements such as Ag, Sn, Sb, and Ba

### **PowerHouse X for REEs**

High-power, high-throughput portable XRF analyzer purpose-built for light and heavy rare earth element analysis, featuring an **80 kV X-Ray tube** for enhanced excitation and improved sensitivity across the REE suite

### **Handheld Z-903 Geochem LIBS**

Fast elemental analysis with exceptional sensitivity to light elements, 100  $\mu\text{m}$  beam for precise targeting of veins and grain boundary

### **reveNIR**

Next-generation handheld Vis-NIR mineral identification 350 – 2,500 nm range

### **ASD Portable Spectroradiometers**

Full-range, high-resolution spectral mineral analysis

Together, these tools deliver both elemental and mineralogical information in the field, enabling faster decisions, tighter targeting, and more efficient drilling programs.

**SciAps is the perfect partner for portable PPB-level gold analysis through **detectORE™****



# In-Field Mineralogy with reveNIR and ASD Portable Spectroradiometers

Next-generation mineral identification  
Where the work happens

## reveNIR

### Handheld Mineral Identification for Field Work

The reveNIR platform delivers fast, reliable in-field mineral identification for exploration, mapping, and core logging workflows.

Next-generation Halo optics, smaller and lighter

Integrated cloud-based modeling and processing

Expanded mineral library with user-defined project sets

Compatibility with TSG mineral interpretation tools

Rapid spectral matching for real-time decisions

Accelerates geological interpretation directly where work happens.



## ASD Portable Spectroradiometers

### The Industry Standard — Reengineered

ASD remains the benchmark for high-resolution spectral mineral analysis, delivering unmatched wavelength coverage and spectral fidelity.

High-performance mineral identification across a wide spectral range

Proven workflows for alteration mapping and mineral characterization

Integration with modern field and cloud-based processing environments

A trusted, production-ready spectral solution now paired with modern connectivity and data workflows.





# Elemental Analysis with XRF and LIBS

Two Technologies. One Complete Geochemical Picture.

## XRF

The Foundation of Field Geochemistry

Rapid multi-element analysis for exploration and grade control

Measures major, minor, and trace elements with proven accuracy

Globally accepted standard for routine field geochemistry

Ideal for pathfinder analysis and production workflows.

## LIBS

The Light-Element Specialist

Exceptional performance on lithium and other light elements

Measures Li, B, Be, C, Na, and F directly in the field

Complements XRF when light-element sensitivity is required

Optimized for lithium exploration and alteration studies

## XRF + LIBS

A Complete Elemental Toolkit

Expanded elemental coverage across the periodic table

Improved confidence in exploration and geochemical interpretation

Faster, more informed decisions without laboratory delay

## Geochem Pro

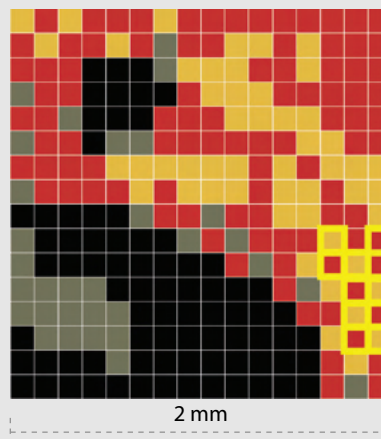
Advanced Field Data Visualization

Real-time micro-analysis in your hand

Evaluate element distributions, mineral associations, and chemical trends in seconds, directly at the drill site

Gold Department Analysis with Geochem Pro

- Gold Detected
- Chalcopyrite
- Bornite
- Molybdenite
- Other Minerals





# Connected Field **Intelligence**

**Across all SciAps geoscience platforms, XRF, LIBS, and Vis-NIR users benefit from a unified, modern data environment.**

From mineral identification to elemental analysis, SciAps enables connected, multi-sensor workflows that support faster interpretation and better technical collaboration, whether teams are in the field, core shed, or office.

Cloud-based modeling and processing workflows

Secure data access for field and office teams

Access data from any SciAps analyzer, anywhere in the world instantly – no more spreadsheet cutting and pasting

Consistent data handling across mineralogy and geochemistry

Scalable project-level data management

Fleet management: keep an eye on your analyzers all around the world and push critical updates with a click of a mouse

# Multi-Sensor Workflows for Modern Core Logging

One Platform. Multiple Sensors.  
Better Ore Body Knowledge

SciAps enables true multi-sensor field workflows by integrating mineral and elemental technologies within a coordinated ecosystem

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Vis-NIR mineral identification  
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High-resolution spectral analysis  
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XRF geochemistry  
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LIBS light-element geochemistry  
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For core logging and sample characterization, this integrated approach allows teams to

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Link mineralogy with geochemistry in real time  
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Strengthen lithological and alteration interpretation  
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Identify subtle geochemical and mineral trends  
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Reduce re-sampling and laboratory bottlenecks  
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Make higher-confidence decisions earlier in the drilling cycle  
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**By integrating mineral and elemental data at the point of collection, SciAps supports faster, more informed exploration and resource evaluation—from first core to final model.**

Product details and technical specifications available at [SciAps.com](http://SciAps.com)

## Core Logging without the Large Capital Investment

SciAps offers a modular, cost-effective alternative to the large, capital-intensive core loggers, or those that require subscription or per-meter payment agreements.

As the only portable analyzer company that manufactures the three major sensor technologies: Vis-NIR, XRF and LIBS – we're pleased to offer the core technologies for your core analysis.

Contact us at [sales@sciaps.com](mailto:sales@sciaps.com) to discuss your sensor and automation requirements.



**XRF:**  
Instant elemental analysis for base, transition, and heavy metals



**LIBS:**  
In-field analysis for Li, Be, B, Na, F, Mg. Laser beam 100 µm for pinpointing analysis region



**Vis-NIR:**  
Mineral identification, Wavelength range: 350 – 2,500 nm



**Cloud-Based Data** integration, machine learning models to maximize synergies between sensors.