

# breeze.

## For Geology

SOFTWARE FOR GEOLOGICAL  
HYPERSPPECTRAL IMAGING APPLICATIONS



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**Breeze is a powerful software platform for hyperspectral image analysis.**

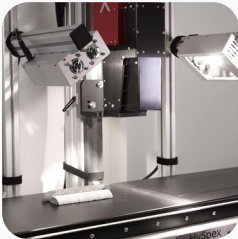
With our geology-specific modules added, it provides a complete solution for geological applications.

The **Geological Analysis** module adds advanced geo-specific data analysis methods for mineral identification and interpretation.

The **Core Scanning** module extends the platform with dedicated tools for efficient drill core analysis.

## Applications

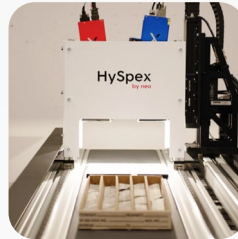
Lab



Process



Core scanner



Field



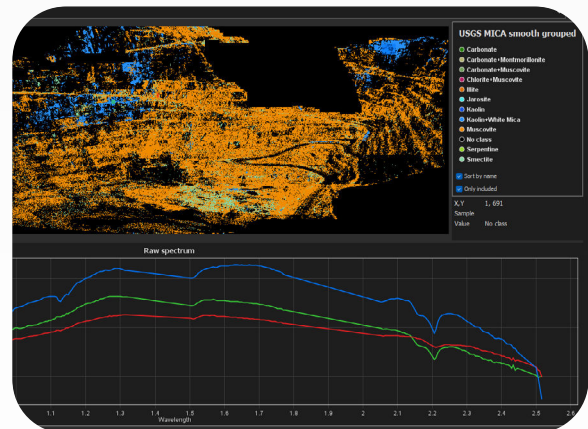
Airborne



## Geological Analysis Module

Our hyperspectral mineral analysis software provides a fast and intuitive solution for mineral identification and interpretation. Automated tools streamline your workflow and enable reliable analysis, even for non-expert users.

- ✓ **USGS PRISM MICA - Mineral classification using built-in spectral library**
- ✓ **Spectral feature modelling - Minimum Wavelength Mapping (MWL)**
- ✓ **Spectral library interactivity**
- ✓ **Other algorithms and modelling tools**



### Use Case: Mineral Sorting

**Comex** are using a hyperspectral imaging camera from HySpex in combination with the Breeze software in their mineral sorting machine for mining applications. In combination with other sensors built-in to their system the materials are quickly analyzed for accurate mineral classification.

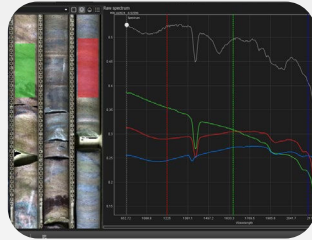
Breeze combined with the geological analysis module and Runtime API provides Comex with a flexible and fast software tool for developing and implementing mineral sorting solutions.





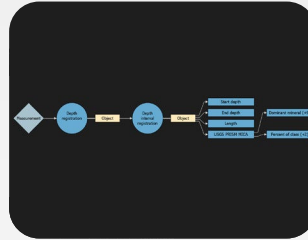
### Data Collection

Record data from all camera systems:  
VNIR + eSWIR  
Live preview  
Adjust settings



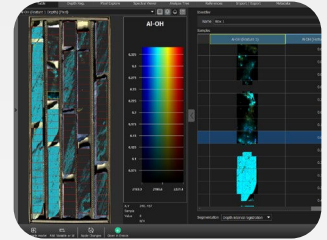
### Data QA/QC

Ensure data quality  
Explore recorded data and spectrum



### Mineral Analysis

Depth registration  
Develop and apply custom data processing workflows  
Mineral classification  
Other algorithms and models



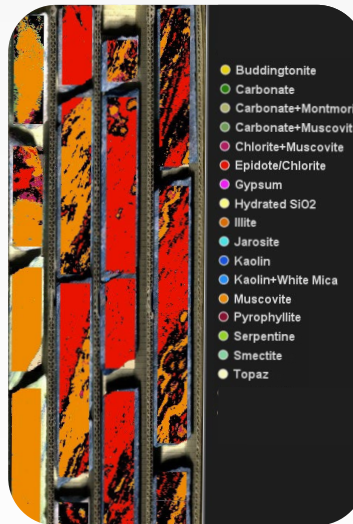
### Visualization and reporting

View mineral classification results  
Export to external software (ioGAS)

## Core Scanning Module

- ✓ Depth registration
- ✓ Depth segmentation
- ✓ Seamless export to industry standard formats

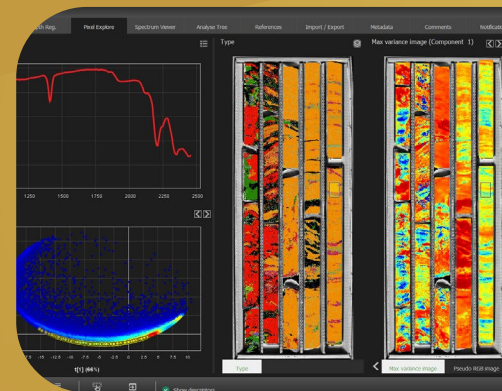
The resulting mineralogic interpretation and logs can be exported in common formats and are easily included in other core logging software to enable a comprehensive understanding of the data. It also allows you to revisit and re-evaluate your data as needed without incurring extra fees.



### Use Case: Core Scanning

At **Colorado School of Mines**, drill cores are scanned with a HySpex SWIR 384 camera and analyzed in the Breeze suite with Geology modules for fast, reliable mineral classification.

Built-in tools like USGS PRISM MICA, MWL and Depth registration enable accurate mapping, with seamless export for easy interpretation.



This module works with



### System requirements:

OS: Windows® (Latest supported Windows version), Linux (Ubuntu 18 or later).  
CPU: High performance Intel CPU, 8 core or more recommended. RAM: Minimum 32 GB recommended.

For the latest information on supported cameras, file formats, and system requirements, visit our website.



## Breeze Suite

**A complete software solution for research, analysis, and industrial applications.**

Breeze Suite is a flexible software platform for research, application development, routine analysis, and real-time industrial solutions. It includes the software Breeze and optional add-on modules for industrial and geological applications.

### ● Runtime API Module

Enables integration with industrial systems.

### ● Geological Analysis Module

Tools for mineral classification and analysis.

### ● Core Scanning Module

Special features for drill core scanning.

## A Trusted Partner In Hyperspectral Imaging

Prediktera develops user-friendly software for hyperspectral imaging, supporting both research and industrial applications. With over 10 years of expertise in data and image analysis, we help customers improve efficiency when working with hyperspectral data. Founded 2015 in Umeå, Sweden, Prediktera is a subsidiary of Norsk Elektro Optikk (NEO) and serves universities, research institutes, and companies worldwide.

## We help you succeed!

- Software solutions
- Training
- Application & integration support
- Feasibility studies



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