



**Adam Tas Corridor Energy**

# **Geological Spectrometer**





## Overview

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These spectrometers are ideal for applications such as geological remote sensing, ground truthing, spectral remote sensing, environmental and climate research, plant and soil research, vegetation studies, forestry and canopy studies, radiometric calibration transfer . The SPECTRO Instrument catalog includes a full range of X-ray fluorescence, and ICP-OES instruments with characteristics optimized for geological fieldwork. Our UV-Vis-NIR Field-portable Spectroradiometers are rugged and specifically designed for the challenges of environmental remote sensing. Using internal constants based on IAEA traceable calibration pads, the Portable Gamma Logger.



## Geological Spectrometer

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### Imaging spectrometry in multiple spectral regions for

Integration of multi-wavelength-range imaging spectrometry data improves geologic mapping by combining complementary information from

### Spectral Library , U.S. Geological Survey

Researchers at the USGS Spectroscopy Laboratory have measured the spectral reflectance of thousands of materials in the lab and compiled them in the USGS Spectral Library. The spectral



### An Introduction to Spectroscopic Methods in the Mineral

Infrared absorption spectroscopy is useful for the analysis of geologic materials because many rock forming minerals display absorption features when



### ASD Portable Spectrometers & Spectroradiometers , Malvern Panalytical

ASD Visible, NIR (and SWIR) spectrometers &



spectroradiometers are the industry standard in helping you improve and streamline your research and production.



## Mass spectrometry , U.S. Geological Survey

By Mineral Resources Program, Geology, Geophysics, and Geochemistry Science Center August 3, 2020 Non-Traditional Stable Isotopes Understanding the genesis of ore deposits and their

## Analyses for the Geology Industry , SPECTRO

SPECTRO offers a full range of XRF and ICP-OES instruments optimized for geological applications, ensuring accurate elemental analysis in geosciences.



## Portable Gamma Ray

What types of materials can it analyze? A Portable Gamma Ray Spectrometer can analyze a wide range of geological materials. It is particularly effective in



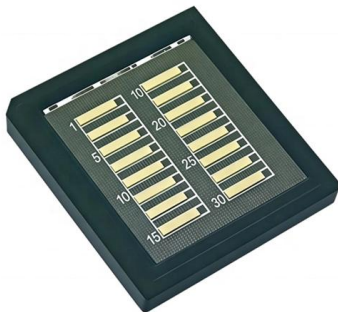
## Geochemistry and Geology

Electron microscopy and molecular spectroscopy are established analytical techniques for the analysis of geological samples, not only providing identification



## Spectral Evolution Spectrometers and Spectroradiometers % -

Spectral Evolution's field portable NIR spectrometers are designed to resist the most demanding conditions of the mining environment. Combined with the EZ-ID(TM) mineral identification software and



## ASD Terraspec , Portable & Handheld Mineral NIR

The ASD TerraSpec range provide portable, rapid and non-destructive analysis of minerals in the lab or the field.



## ASD TerraSpec 4 Hi-Res Mineral Spectrometer

This state-of-the-art mineral spectrometer offers enhanced performance in the SWIR 1 and 2 regions and a 6 nm resolution to help you determine the viability of mineral exploration targets faster and



## Spectrometers

It is the ultimate tool for building high-resolution libraries and pushing the boundaries of spectral analysis for remote sensing applications, including environmental monitoring, climate research, crop and soil



## Mineral Analysis Spectrometers , Precision, Efficiency

A comprehensive guide to mineral analysis spectrometers, detailing their use in geophysics for determining mineral compositions through

## ore-series , SphereOptics

With Spectral Evolution field portable NIR spectrometers and EZ-ID mineral identification software, geologists can measure and identify minerals within





## Raman Spectroscopy for Geological Materials Analysis

Raman spectroscopy is a practical exploration tool to study geo-logical materials. This technique is a rapid and reliable way to confirm, for example, that a geological sample is really a jade gemstone, or

## Putting the Spotlight on the Mass Spectrometer

Mass spectrometers are one of the most essential tools in geology. It's time for their story to be told. It's traveled to other planets, helped build atomic



## Analyses for the Geology Industry , SPECTRO

ICP-OES spectrometers like the SPECTROBLUE and SPECTRO ARCOS and ICP-MS spectrometers like the SPECTRO MS have been used for a long time in

## Mass spectrometry in Earth sciences: the precise and accurate

Precise determinations of the isotopic compositions of a variety of elements is a widely applied tool in Earth sciences. Isotope ratios are used to quantify rates of geological processes that occurred during



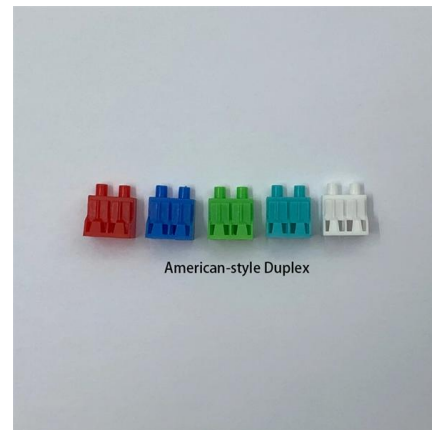
### Mineral identification with the FT-NIR Rocket and

Our FT-NIR Rocket fibered Fourier-transform spectrometer is a great instrument for mineral identification and exploration. The Arcoptix FT-NIR will measure in the



### The Development of Field Spectroscopy for Minerals

The technology to support the application of spectroscopy continues to develop, moving from early handheld field-based instruments to stationary scanners that



### Spectroscopy Lab , U.S. Geological Survey

Researchers at the USGS Spectroscopy Lab are studying and applying methods for identifying and mapping materials through spectroscopic remote sensing (called imaging spectroscopy,



## Raman Spectroscopy for Mineral Identification: A Practical Guide

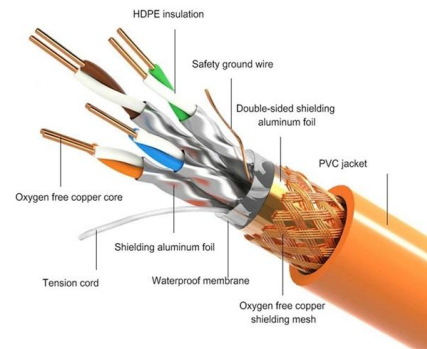
Many Raman spectroscopy applications, including mineral identification, require the ability to control the laser intensity at the sample. Most laser systems allow for some electronic control of their output



## GEO-QUANT , XRF Solution , Bruker

GEO-QUANT ADVANCED is the powerful analytical solution for the analysis of major and minor oxides in geological samples, raw

### PRODUCT DETAILS



## ASD Terraspec , Portable & Handheld Mineral NIR Analyzers

Portable full-range handheld spectrometer that is fast, accurate, and easy to use for the exploration geology market Measurement Molecular structure Wavelength 350nm to 2500nm Spectral resolution



## Home

WHAT WE DO Spectral Geoscience use 'infrared spectroscopy' as a versatile analytical tool to aid geologists, geotechnical engineers and geometallurgists with



## Geology applications of Fourier transform infrared

Fourier transform infrared spectroscopy (FTIR) is a spectroscopic technique that has been used for analyzing the fundamental molecular structure of geological

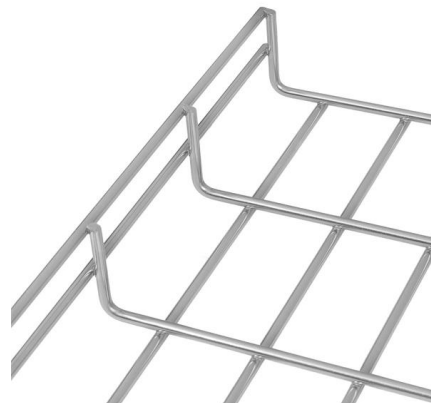


## Remote Sensing Spectroradiometers

Spectral Evolution is a leading manufacturer of field-portable UV-Vis-NIR remote sensing spectroradiometers and spectrometers for applications

## Radiometric Geophysical Land Products

The Georadis GT-32 is a world leading portable hand-held gamma ray spectrometer for the geophysical industry. The GT-32 offers three modes of operation; scan,



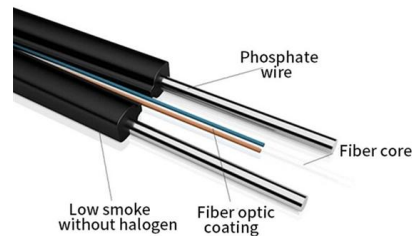


## Raman Spectroscopy for Geological Materials Analysis

Raman spectroscopy is extremely information-rich (chemical identification, characterization of molecular structures, effects of bonding, environment and stress on a sample). With its non-destructive

## Spectroscopy Lab , U.S. Geological Survey

Maps of hyperspectral imaging spectrometer data used to identify and characterize mineral deposits, vegetation, and other land surface features.



## Contact Us

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