

GeovisionION

A complete solution for stable isotope analysis in Earth Sciences



Small footprint



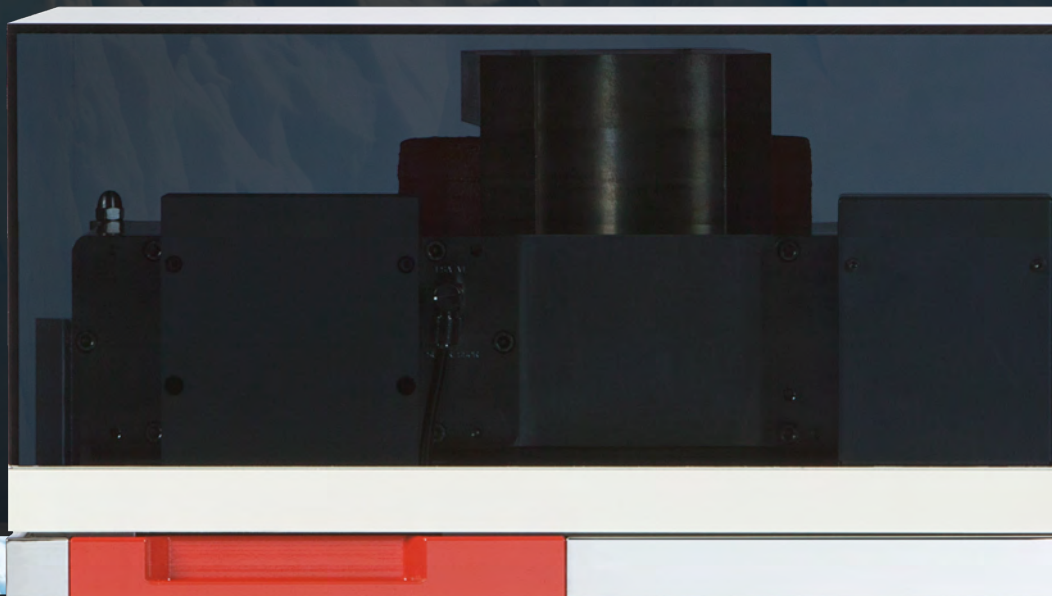
Ease of use



Intuitive data analysis



Low cost of ownership



Geovision

*Snowball or
Greenhouse?*

The application of stable isotope analysis in the diverse Earth Sciences is an established technique and has been exploited with great success to further our understanding of the world which we inhabit, as well as those we don't. It is an invaluable tool to understand the macro and micro cycling mechanisms of the organic elements of C, O, H, N & S through the lithosphere by natural processes.

Geovision is the ideal solution for unpicking these complex processes which control the natural world.

Geovision brings stable isotope analysis to a sophisticated audience looking for simpler instrumentation with improved resource efficiency yet high performance to analyze their most challenging samples.

A powerful combination.

② Market leading **isoprime vision** stable isotope analyzer



Experience lyticOS® suite, the most intuitive analytical software ever created.

Fundamental to lyticOS is the delivery of an exceptional user experience. Every stage of development has focused on delivering a modern, intuitive interface to lyticOS and your system beyond, simplifying your workflows whilst taking advantage of unrivaled new capabilities.

Save time with Good-for-Go

lyticOS comprises an unrivalled symbiosis of software and hardware. Utilizing intelligent automation and control, Good-for-Go optimizes your system and performs routine tasks reducing the demand on operators and improving system reliability and performance.

lyticOS KEY FEATURES



- Incredible new capabilities for acquisition and data processing.
- Elegant user interface with contextual control.
- Intelligent and automatic instrument performance optimization.
- Instantaneous data processing with dynamically updating results.
- Import your data from 3rd party instruments.

isoprime vision is the most elegantly simple stable isotope analyzer ever created.

Simplicity is what **isoprime vision** is about. Creating something simple seems, well, simple. In fact, simplicity can only be achieved once the fundamental requirements of our customers are understood. With this clarity, **isoprime vision** offers a completely new experience of stable isotope analysis. An experience where the user is free from the routine chores of maintenance allowing them to focus on the science, not the instrumentation.

isoprime vision offers exceptional bulk and compound specific isotope analysis through market leading technology from Elementar and Agilent Technologies. Harnessing this technical ability through the **isoprime vision** finally opens the power of stable isotopes to practically any laboratory.



isoprime vision KEY FEATURES

- Almost 50 % smaller instrument than any other currently available
- Straightforward analysis and intelligent control for incredible ease of use
- Significantly reduced consumption of laboratory resources
- Good-For-Go control significantly reduces instrument contact time
- 100 V amplification for large dynamic range samples
- Unique purge & trap chromatography for exceptional separation of gases
- Patented back-flushing technique in pyrolysis mode
- Zero blank ball valve sample introduction
- Exceptional SO₂ performance for analysis of inorganic sulfur containing materials
- Auto sample dilution

② Market leading elemental analyzer



GeoVISION ENHANCEMENTS

- Go deeper into your samples by adding $\delta^{13}\text{C}$, $\delta^{15}\text{N}$ & δD compound specific isotope analysis with Agilent 8890 GC for biogeochemical analysis
- For complete confidence in your GC-IRMS analysis, add the Agilent 5977A mass selective detector for simultaneous compound identification and isotope analysis
- Perform accurate weighing with 6 figure analytical microbalance for high precision elemental analysis
- Utilize enriched isotopes to probe complex natural interactions with automatic amplifier switching

Expand your research further.

Ⓢ Elemental Analysis

Conversion of bulk organic and inorganic materials to sample gases prior to isotope analysis

Ⓢ Isotope Analysis

Intelligent analysis of sample gases from GC & EA inlets

Ⓢ Gas Chromatography

Separation of volatile organics and real time conversion to sample gases



RESEARCH AREAS SERVED

- Academic earth sciences including geochemistry, paleoclimate, hydrology and marine sciences
- National geological surveys
- Contract geoscience laboratories

SAMPLE TYPES ANALYZED

- Mineral derived sulfates & sulfides
- Nitrates from the hydrosphere
- Biogenic silicate, carbonate and apatite materials
- Soils, sediments & clays
- Organic materials



Small footprint

Almost 50 % smaller than any other commercial stable isotope analyzer



Ease of use

Good-For-Go control allows one click instrument set-up



Intuitive data analysis

The most intuitive analytical software suite ever created



Low cost of ownership

Instrument sleep / wake-up functions for reduced consumption of resources

Elementar – your partner for excellent elemental analysis

Elementar is the world leader in high performance analysis of organic and inorganic elements. Continuous innovation, creative solutions and comprehensive support form the foundation of the Elementar brand, ensuring our products continue to advance science across agriculture, chemical, environmental, energy, materials and forensics markets in more than 80 countries.

Elementar Analysensysteme GmbH

Elementar-Straße 1 • 63505 Langenselbold (Germany)

Phone: +49 (0) 6184 9393-0 | info@elementar.com | www.elementar.com

