

Introducing

Navigator UV VIS NIR 350nm - 2500nm

Portable, Broadband Absorption Spectroscopy Covering 350 nm - 2500 nm Wavelength Range

- Highly portable UV/Vis/NIR absorption analyzer
- Field-ruggedized for virtually any climate or conditions
- Extensive, customizable libraries for minerals & compounds
- Instant connectivity & data upload from anywhere
- Java driven tablet for fast analysis
- Integrated, removable tablet for completely autonomous data collection without the need for external laptop or PDA



The **Pistol-Grip Probe** on the Navigator also holds any smartphone for convenient results viewing & start/stop.

Download our free App for any Android based device.



Compound and Mineral Analysis Designed for your World

SciAps introduces a truly portable, field hardened absorption spectrometer. The wide spectral range from 350 nm to 2500 nm captures signature absorption patterns spanning the ultraviolet (UV) through the near infrared (NIR). The spectral range allows for a wider variety of minerals and compounds to be identified, including critical minerals in clay mineralogy, sulfates, carbonates, rare earth minerals/elements and many more.

A Robust Spectrometer

The Navigator is robustly designed for water, dust and shock resistance, meeting IP 54 standards. Internal temperature stabilization



and automated drift correction deliver reliable performance in excessively hot or cold climates. And there's no moving spectrometer components. It's built for the daily wear and tear required of field-based analytical instruments. It can be used in virtually any climate and operating condition.

Analytically Speaking

For mineral analysis, Navigator exports directly to TSG or SpecMIN. Data is seamlessly dropped into TSG for mineral ID, mapping and data logging.

Navigator software is equipped with standard libraries of minerals or compounds. Operators may easily build and customize their own libraries allowing you to build your own. Customized method generation for results analysis is available via on-board standard approaches including Principal Components Analysis and Partial Least Squares (PCA/PLS) methods. The Navigator is also compatible with common off-the-shelf chemometrics programs like Camo Unscrambler.



Field Geologists Compatible with TSG and SpecMIN





Tablet Driven for Global Connectivity

Navigator is both highly mobile and globally connected. Its engine is a Mil-spec 810g rated Tablet useable in virtually any environment. The Tablet easily disconnects from the analyzer, offering easy results viewing and offline analysis while travelling with the instrument in storage. The Navigator's software engine is Java-based, yielding exceptional compatibility for exporting data. It features instant connectivity to the cloud via wireless and broadband. Data collected in the field can be instantly uploaded to off-site analysis stations. Data from multiple instruments are easily uploaded for comparison and logging, for analyzers used at multiple geographic locations.

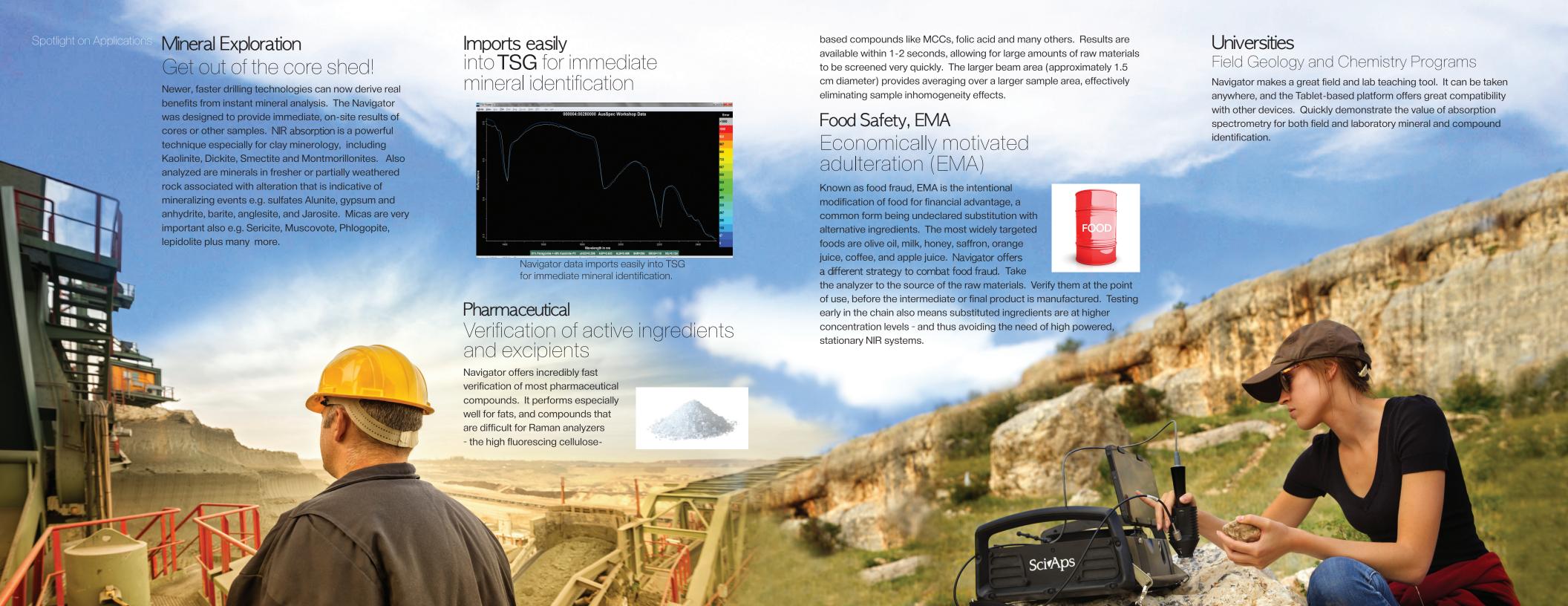












Plastics Recycling and Quality

PE, PP or ABS? Or specialized surgical plastics like PPSU or PSO? The Navigator's speed and ease of use make it a great tool for sorting plastics by type as part of a recycling operation, or verifying the correct type of plastic at incoming or outgoing inspection. NIR as a technique is very fast, identifying most plastics in about 1 second. The large area light source lends itself to quick field operation by non-technical operators. It's the true point and shoot tool for polymer identification.



General Applications for Product Quality

Navigator's portability, spectral range, processing power and Tablet engine make it a powerful tool for a wide array of molecular analysis applications. As supply chains go global, monitoring raw material quality becomes a field job, often requiring on-site inspections. The Navigator puts a powerful analytical tool into the hands of quality managers, allowing immediate, on-site material verification. And, with the connectivity of the Tablet, data is easily streamed to a central warehouse. On-site analysis, immediate answers, totally connected data globally.



Other SciAps Products

SciAps also manufactures a leading line of handheld and benchtop Raman analyzers. Raman offers several complementary features to portable NIR, including better selectivity for some organic compounds, and insensitivity to water. Thus it's often a better technique for moist samples or aqueousbased solutions. In addition, certain minerals and gems (e.g. quartz) are easily identified via Raman, whereas NIR absorption is insensitive. Raman also interrogates a very small region - about 25 um - compared to NIR, making it a better technique for looking at very small samples, mineral veins, or particulate contaminants in materials.

SciAps is pleased to offer a Raman unit for every price/performance requirement. The least expensive analyzers on the market -- The ReporteR and 21 CFR Part 11 compliant Pharma ID -- are rugged (IP67 compliant), compact, and ideal for many standard applications. The Inspector 300 is a more powerful system, featuring a 300 mW, 785 nm laser, color touchscreen, and advanced processor for higher performance. The Inspector 500 features a specialized 1030 nm laser designed to handle the toughest fluorescing materials that 785 nm lasers simply cannot analyze. Finally, the Scope combines the Inspector with a microscope, digital camera and XYZ stage. It's the only Raman analyzer that offers benchtop analysis, and undocks to become a high performing handheld Raman. Whatever your requirements - NIR absorption or Raman - SciAps offers the right analyzer package and outstanding customer support and service.







CWC (Chemical Warfare

Enforcement (Narcotics,

Explosives). Chemical

Library, Pharmaceutical

Agents, TICS, TIMS), Law

SPECIFICATIONS

Laser 300 mW 785 nm Class III B 300 mW 1030 nm Class III B Cooled CCD array Cooled Type III-IV semicon-Detector ductor array Spectral Range cm-1 175-2875 100-2500 Resolution across range cm⁻¹ | 6-8 8-10 7.5" x 6.9" x 1.7" 7.5" x 6.9" x 1.7" **Dimensions** 3.75 lbs (1.7 kg) 3.75 lbs (1.7 kg) Weight Battery lifetime 4 hours and removable 4 hours and removable -20° to +40° -20° to +40° Operating Temperature PC Software DATA & DATA Advanced DATA & DATA Advanced



Spectral Library Options

•ReporteR

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The smallest, toughest Raman analyzer on the planet: The ReporteR weighs less than 1lb, and meets demanding Mil Spec 510G for waterproof, dustproof, shockproof ratings. On-board spectral libraries are configured to quickly identify many unknown compounds. A perfect combination of ruggedness and performance for many in-field applications



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SPECIFICATIONS

Feature	Specification
Spectral Range (nm)	350 - 2500
Resolution (nm)	4 nm @ 435 nm 5 nm @ 1530 nm 10 nm @ 2100 nm
Weight (incl Tablet, excl batteries, probe)	17.95 lbs
Battery weight	1.9 lbs
Battery life	6.5 hrs
AC Power	100 - 240 VAC 50/60Hz
Dimensions	14.5" X 13.5" X 7.5"
Tablet OS	Windows 8
Connectivity	WiFi, 4G LTE, Bluetooth, USB









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