

Handheld Spectrometer Spectroscopic Analysis Instrument



Article Overview

A handheld spectrometer is a compact, portable device that enables rapid, on-site spectral analysis for material identification, chemical composition, and quality control.

Overview

Handheld spectrometers are portable analytical instruments designed to perform spectral analysis outside traditional laboratory settings. They allow users to identify materials, detect chemical compounds, and measure elemental composition in real time, making them ideal for fieldwork, industrial quality control, environmental monitoring, and research applications .

Key Technologies

- Raman Spectroscopy (SORS): Devices like the Agilent Resolve and TruScan™ G3 use spatially offset Raman spectroscopy (SORS) to analyze materials through non-transparent containers or beneath surfaces, enabling rapid chemical identification without sample destruction .
- X-ray Fluorescence (XRF): Handheld XRF analyzers, such as the SciAps X Series and S1 TITAN, provide elemental analysis for metals, alloys, and environmental samples. They are robust, fast, and suitable for harsh field conditions .
- Laser-Induced Breakdown Spectroscopy (LIBS): Instruments like the SciAps Z Series detect light elements (e.g., lithium, beryllium, carbon) that are challenging for XRF,...

Article Content

Elemental Analysis Solutions & Analytical Instruments | SPECTRO

SPECTRO is a global leading supplier of advanced analytical instruments like ICP, Arc Spark OES, and XRF spectrometers for

Handheld Spectrometer, Portable SORS Raman Technology | Agilent

Resolve Handheld Spectrometer The Agilent Resolve handheld spectrometer is a cutting-edge analytical instrument specifically

Portable handheld spectrometers

The SciAps ReveNIR handheld NIR spectrometer brings the power of near-infrared spectroscopy to your fingertips. This compact

Portable Spectrometer / Handheld Spectrometer

Portable spectrometers / handheld spectrometers allow researchers to analyze samples on the go. Perfect for applications like field

(PDF) Hand-held near-infrared spectrometers: State-of-the-art ...

Near infrared (NIR) spectroscopic investigations of whole fish and fish fillets with a miniaturised, hand-held instrument

Handheld Visible and NIR Spectrometers

Handheld Visible and NIR Spectrometers GoyaLab spectroscopy instruments use a patented optical configuration based on axial

Amazon : Spectrometer Handheld

Explore a wide range of handheld spectrometers for light measurement and analysis. Find portable spectrum analyzers for research,

Amazon : Spectrum Analyzer Handheld

Unlock the power of portable spectrum analysis with handheld devices featuring wide frequency ranges, sensitive touchscreens, and

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Shop handheld spectroscopes and spectrometers for gemstone identification, color matching, and scientific light analysis. Multiple

Handheld spectrometers | Feature | Chemistry World

Handheld spectroscopy today mostly has a single function as a highly mobile instrument with on-board chemical databases, Ellis

Handheld Portable Spectrometers – Gamma Scientific

Handheld Portable Spectrometers Precision and Portability in a Compact Package
These spectral light meters are designed for

Handheld Raman Spectrometer | Raman Spectra Analysis

Our fastest professional handheld Raman spectrometer yet. Enhanced precision instrument for scientists and engineers. Making

Compact & Portable FTIR Systems, Mobile FTIR | Agilent

Agilent compact and portable FTIR systems deliver the sensitivity and efficiency of a lab-based system, yet are fully portable. These

Contact Us

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