

Handheld manganese and iron elemental spectrometer

5-INCH COLOR TOUCHSCREEN
Intuitive operation, easily accessible with just one touch



Overview

Handheld XRF analyzers offer real-time and non-destructive elemental analyses for around 30 elements ranging from Mg to U. These instruments are ideally suited to supporting geologists in the timely process and planning decisions required in the field. Such concentrations can easily be detected by Thermo Scientific™ Niton™ handheld. X-Ray Fluorescence (XRF)-based portable mineral testers, such as TITAN, provide immediate, on-site elemental analysis of minerals to support exploration, geological mapping, and sample screening without the delays associated with lab-based analyses. Handheld XRF analyzers facilitate the. Lab-on-the-go: from handheld to a mini-lab system when connected to the docking station with sample chamber The new SPECTRO xSORT handheld XRF boasts numerous new features and designs aimed at enhancing user speed, ease, and convenience, while also delivering advanced analytical performance. Ore, grade, process control, and laboratory applications. It has comparable performance with bench top. Its small and convertible size makes the works of geological ore prospecting, multi elemental detection, exploration analysis. The Metalyser® offers easy field detection of cadmium, lead, zinc, mercury and arsenic, as well as low-range copper and manganese. The Metalometer offers high-range copper and manganese, whilst adding aluminium, boron, iron, chromium (VI) and nickel. Dual technologies offer a flexible solution for.



Article Content

Dec 12, 2025

Elemental Composition Analysis

When you need elemental composition analysis, you need a reliable, highly accurate analytical tool that is easy to use. Bruker XRF elemental composition analyzers

Jan 11, 2026

Nine Elements That Challenge Handheld XRF Analyzers — But Are

Introduction Handheld X-ray fluorescence (XRF) analyzers are useful for many elemental measuring tasks across numerous industries and applications. Advanced models — such as the SPECTRO

May 19, 2026

Heavy Metal Analysis

The Metalometer offers high-range copper and manganese, whilst adding aluminium, boron, iron, chromium (VI) and nickel. Dual technologies offer a flexible solution

Apr 14, 2026

SPECTRO xSORT XRF Handheld Analyzer for many

Fast on-site elemental analysis: The SPECTRO xSORT handheld XRF is the ideal analyzer for compliance testing and quick screening of non-metallic samples.

Apr 01, 2026

Portable XRF Elemental & Mineral Analyser for Mining & Exploration ...

Handheld mineral analysers enable creation of accurate report to the capital markets as fast as possible. Thermo Scientific™ Niton™ portable X-ray fluorescence (XRF) mineral and elemental analysers are

May 27, 2026

Real-Time Elemental Analysis Using a Handheld XRF

An X-ray fluorescence handheld spectrometer (hh-XRF) is adapted for real-time qualitative and quantitative elemental analysis in scanning mode for

Jul 26, 2025

Elemental Analysis Using a Handheld X-Ray Fluorescence Spectrometer

Elemental Analysis Using a Handheld X-Ray Fluorescence Spectrometer The U.S. Geological Survey is collecting geologic samples from local stream channels, aquifer materials, and rock outcrops for

Sep 21, 2025

AELAB Portable XRF Spectrometer 5000 – Handheld

Discover the AELAB Portable XRF Spectrometer 5000 – a handheld, high-precision analyzer for alloys and precious metals. Fast results, rugged design, and lab

Mar 15, 2026

Dw-Ex7000 Sdd Detector Portable Mineral Mining Xrf

Its small and convertible size makes the works of geological ore prospecting, multi

Sep 13, 2025

HANDHELD XRF ANALYZER

Handheld Mineral Analyzer is a lightweight handheld analyzer using XRF technology featuring software that is simple to navigate and offering real-time results on its

Feb 08, 2026

Vanta Handheld XRF Mineral Analyzer | Evident

Vanta Max handheld XRF analyzers provide immediate, on-site elemental measurements for mining and geochemical applications for the analysis of a

Apr 07, 2026

Manganese-Iron | Handheld XRF | Mining & Exploration

Discover how to optimize manganese-iron exploration and mining through the utilization of handheld XRF for quick identification and analysis.

Apr 03, 2026

Manganese-iron exploration and mining with handheld XRF

Handheld XRF Analyzers in Mining X-ray fluorescence (XRF) is an analytical technique with the ability to deliver fast and accurate elemental analysis with little or no sample preparation. It can be applied in

Jun 23, 2026

Chemical Analysis of Iron Meteorites Using a Hand-Held

Abstract and Figures We evaluate the performance of a hand-held XRF (HHXRF) spectrometer for the bulk analysis of iron meteorites.

May 11, 2026

Dw-Ex7000 Sdd Detector Portable Mineral Mining Xrf Spectrometer ...

High-quality Dw-Ex7000 Sdd Detector Portable Mineral Mining Xrf Spectrometer Handheld Xrf Analyzer for Iron/ Manganese/ Tin Ore supplied by Chongqing Drawell Instrument Co., Ltd..

Sep 02, 2025

Quantifying Iron Concentration in Local and Synthetic Acid Mine ...

Abstract Pit lakes present a concern for public safety and environmental quality. With continuing advancement of imaging satellites, remote sensing spectroscopy may provide a useful tool for

May 06, 2026

Portable Mineral Testers for Mining and Exploration

In mineral exploration and mining, fast access to reliable geochemical data helps guide decisions in the field. X-Ray Fluorescence (XRF)-based portable mineral

Feb 17, 2026

SPECTRO xSORT Handheld XRF Analyzer for Metal Analysis

The SPECTRO xSORT XHH04 handheld XRF gun is an elemental analyzer that's designed for high-throughput analysis of metals and

Jan 27, 2026

Dw-Ex7000 Sdd Detector Portable Mineral Mining Xrf

Find verified Dw-Ex7000 Sdd Detector Portable Mineral Mining Xrf Spectrometer Handheld Xrf Analyzer for Iron/ Manganese/ Tin Ore suppliers and manufacturers

Aug 05, 2025

Portable Metal Analyzer

The SPECTROPORT portable arc spark spectrometer is ideal for many applications in the metal producing, processing, and recycling industries. Find out more.

Jul 10, 2025

Manganese-iron exploration and mining with handheld XRF

Handheld XRF analyzers provide real-time nondestructive elemental analyses (for approximately 30 elements from Mg to U) to help geologists make timely process and planning decisions in the field.

Aug 01, 2025

Multielement analysis of metals and alloys

Handheld elemental analyzer ELANIK uses Laser-Induced Breakdown Spectrometry (LIBS) method which theoretically allows analysis of all the elements without

Jan 31, 2026

Iron Low Range & Manganese Low Range Photometer

HI97742 is an advanced portable photometer for the measurement of iron and manganese in water. This meter offers a superior optical system that utilizes a

Jun 07, 2026

Portable Mineral Testers for Mining and Exploration

Bruker's portable mineral testers enable the fast & accurate elemental analysis of mineral's on-site, even in remote mining locations.

Jul 04, 2025

56 ELEMENT HANDHELD XRF ANALYZER –

No need for sample preparation, directly measures and analyses the surface of goods, its handheld benefit helps the instrument achieve a quick measurement

Dec 18, 2025

Moving toward a Handheld “Plasma” Spectrometer for Elemental

Many of these components are already commercially available or at least have been reported in the literature. Comparisons to other “handheld” elemental analysis devices that employ XRF, LIBS, and

Jul 21, 2025

Elemental Analysis | Spectrometer Manufacturers

Metal Power Analytical provides world-class spectrometers, metal analysis instruments, and OES technology for steel plants, foundries, and industries

Apr 28, 2026

Portable handheld spectrometers

Our portable handheld spectrometer instruments Handheld and portable spectrometers have the ability to quantify or qualify nearly any element without

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.piano-lessons.co.za>

Email: info@piano-lessons.co.za

Phone: +31 6 37258914

Address: Herengracht 123, 1015 BT Amsterdam, Netherlands

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