

Handheld Lead-Cadmium Spectrometer



AI Overview

Handheld XRF spectrometers provide rapid, non-destructive detection of lead and cadmium in consumer goods, electronics, metals, and other materials.

Overview

Handheld lead-cadmium spectrometers are portable X-ray fluorescence (XRF) analyzers designed to detect hazardous elements such as lead (Pb) and cadmium (Cd) quickly and accurately without destroying the sample . These devices are widely used in consumer product safety, electronics compliance, metal alloy analysis, and environmental screening. They allow inspectors, quality engineers, and compliance teams to perform on-site testing at production lines, warehouses, or supplier facilities, reducing the need for laboratory analysis .

Key Features

- **Portability and Durability:** Compact, lightweight designs (e.g., 1.5 kg for some models) with rugged housing for field use .
- **High Sensitivity Detectors:** Equipped with Si-PIN or SDD detectors for precise elemental analysis, capable of detecting trace levels of lead and cadmium .
- **Rapid Analysis:** Provides near-instant results, enabling immediate decision-making for compliance and quality control .
- **Non-Destructive Testing:** Can analyze metals, plastics, paints, fabrics, and electronics without damaging the sample .
- **Data Management:** Onboard storage, USB/Bluetooth connectivity, and GPS integration for tracking and exporting results

Article Content

Sep 11, 2025

XRF Lead Paint Analyzer

Detecting Lead in Paint with X-Ray Fluorescence Analyzer Portable XRF Lead-Based Paint Analyzers The X-Ray Fluorescence

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Applications for Niton Portable Analyzers

For fast, reliable alloy grade identification, composition analysis, and quality checks of finished goods, rely on proven Niton handheld

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Heavy Metal Analysis

The Metalyser® offers easy field detection of cadmium, lead, zinc, mercury and arsenic, as well as low

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TITAN Handheld XRF Analyzer | Bruker

TITAN handheld XRF delivers fast, accurate precious metal analysis with dedicated calibrations for the

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Electrochemical Method for the Rapid on Site Screening of Cadmium

These electrodes, coupled with differential pulse anodic stripping voltammetry (DPASV), have provided a rapid,

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Handheld XRF Spectrometers for Elemental Analysis

Handheld / portable X-ray fluorescent (XRF) analyzers have the capability to non-destructively quantify or

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SPECTRO xSORT XRF Handheld Analyzer for many

The new SPECTRO xSORT handheld XRF boasts numerous new features and designs aimed at

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Portable XRF Analyzer & Price List

See many used XRF Analyzer Models and their prices. Here I list the price of a Portable

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Community-Wide Monitoring of Lead in Drinking Water Distribution ...

Lead (Pb²⁺) contamination in drinking water remains a critical public health concern, particularly for children, due to

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AURA® handheld NIR is a portable spectrometer system, which enables measurements to be taken

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Handheld XRF Spectrometer | Handheld Spectrometer

Labmate Handheld XRF Spectrometer provides non-destructive analysis for

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Handheld XRF Basics

Another application of handheld XRF analyzers is the detection of toxic heavy metals in almost any type of consumer product. The

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BRAVO Handheld Raman Spectrometer | Bruker

BRAVO is THE handheld Raman spectrometer dedicated for fast raw materials identification and verification with optimal spectrum

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Hazardous Metals in Vintage Plastic Toys Measured by a Handheld

Abstract Over 100 plastic toys from the 1970s and 1980s, both polyvinyl chloride ("vinyl") and nonvinyl, were analyzed in the study

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Method 6200: Field Portable X-Ray Fluorescence Spectrometry for the ...

If a site is encountered that contains lead at concentrations greater than ten times the concentration of arsenic it is advisable that all

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Amazon : Spectrometer Handheld

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

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Evaluation of 20 Elements in Soils and Sediments by ED-XRF of

The detection limits, precision, and accuracy of the MED-XRF acquisition for 20 elements, including cadmium, lead,

May 28, 2026

Testing Consumer Goods with Handheld XRF Analyzers

With handheld XRF testing, users can be sure their manufacturing programs are fully compliant while

Nov 21, 2025

Handheld XRF Analyzers for RoHS Compliance | Alloy Geek

Handheld XRF analyzers for RoHS screening. Detect lead, cadmium, mercury, and chromium in electronics and components. Find

Oct 02, 2025

X-550 XRF Analyzer

Collect and monitor lead paint measurements in real time, from anywhere. Eliminate the burden of

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FISCHERSCOPE® X-RAY XAN® 500 | Helmut Fischer

One special feature of this compact measuring device is that it detects the thickness and composition of a

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Portable Spectrometer / Handheld Spectrometer

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

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Handheld XRF Analyzers: Comparing the Top Models for 2026

Handheld XRF technology has transformed quality control and material verification across multiple sectors. Mining

Contact Us

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

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town, 7441, South Africa

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