

Price of a Small Metal Spectrometer



Article Overview

Small portable metal spectrometers typically range from \$30,000 to \$50,000 for new units, with used models available at significant discounts.

Price Overview

- **Handheld XRF Spectrometers:** Compact, portable X-ray fluorescence (XRF) analyzers, such as the JITA19201 or Olympus Delta series, are priced around \$30,000 for basic models and \$35,000 or more for advanced models with enhanced detectors and alloy analysis capabilities . Used units can be up to 70% cheaper, depending on condition and features .
- **Portable OES Spectrometers:** Devices like the SPECTROPORT or ultra-compact spark emission spectrometers (e.g., Q2 ION) offer lab-grade precision in a small, durable format. Prices for these units are generally higher than basic handheld XRFs, often ranging from \$40,000 to \$50,000, reflecting their broader elemental analysis capabilities and faster measurement times .
- **Factors Affecting Price:**
 - **Technology type:** XRF (non-destructive, fast) vs OES (spark emission, more precise for alloys)
 - **Detector type:** Si-PIN vs SDD for XRF, affecting sensitivity and light element detection
 - **Portability:** Handheld vs benchtop or mobile units
 - **Calibration and software packages:** Predefined calibration sets and automation features can increase cost
- **New vs used:** Used spectrometers can save 30-70% of the new price

Article Content

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Metal Spectrometer

A metal analysis spectrometer is an instrument used to determine the elemental composition

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

Website: <https://sdesign.net.pl>

Email: sales@sdesign.net.pl

Phone: +48 694 237 815

Address: ul. Marszałkowska 10, 00-001 Warsaw, Poland

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