

Article Overview

Handheld and portable spectrometers range from under \$1,000 for basic models to over \$100,000 for advanced, high-precision instruments.

Price Ranges

- o Budget-friendly handheld spectrometers: Some entry-level models, such as the NH300 and OHSP350C, are priced under \$1,000, suitable for startups, small labs, or basic field testing .
- o Mid-range portable spectrometers: Devices with broader capabilities, including XRF, Raman, or multi-angle color measurement, typically cost \$5,000-\$50,000, depending on spectral range, accuracy, and software integration .
- o High-end professional models: Advanced instruments like the Bruker S1 TITAN or DW-EX5000, designed for precise elemental or molecular analysis, can exceed \$100,000, offering high accuracy, compliance with ISO 17025 standards, and integration with lab management systems .

Factors Affecting Price

- o Technology type: XRF, Raman, LIBS, and spectrophotometers vary in cost due to complexity and detection capabilities .
- o Accuracy and spectral range: Higher precision and wider spectral coverage increase the price .
- o Software and connectivity: Devices with mobile app integration, cloud analytics, or automated calibration features are more expensive .
- o Compliance and certifications: ISO, CE, FCC, and RoHS certifications can add to the cost, especially for industrial or regulatory applications .
- o New vs. used: Used or refurbished spectrometers can reduce costs significantly, sometimes by 50% or more, but may require careful evaluation of calibration and maintenance history .

Additional Considerations

- o Total cost of ownership: Include calibration, software updates, repairs, and potential bulk discounts for multiple units .
 - o Application-specific needs: Prices vary depending on whether the device is for color measurement, chemical analysis, narcotics detection, or environmental monitoring .
 - o Portability and durability: Lightweight, field-ready devices may cost more per unit but save operational time and increase flexibility .
- In summary, mobile spectrometer prices vary widely, from under \$1,000 for basic handheld models to over \$100,000 for high-end, multi-modal instruments, with the final cost influenced by technology, precision, software, and compliance requirements.

Price of a mobile spectrometer

Mobile Optical Emission Spectrometers for ultimate PMI/NDT metals analysis Spark optical emission

In this context, the Spectryx Blue Mobile Educational Spectrometer is a revolutionary device developed for students, educators, and

Malvern Panalytical offers a range of portable spectrometers and a portable XRF analyzer alternative to a XRF handheld or XRF gun.

Find your mobile spectrometer easily amongst the 41 products from the leading brands (LECO, Hitachi,

Here I list the price of a Portable XRF Analyzer (AKA handheld XRF spectrometer) depends on functionality and

Online shopping for Spectrometers - Spectrometry from a great selection at Industrial & Scientific Store.

Explore a wide range of our Portable Spectrometer selection. Find top brands, exclusive offers, and unbeatable prices on eBay.

The GoSpectro is a revolutionary device that turns any smartphone or tablet into an ultracompact, portable spectrometer. It is ideal

For onsite metal analysis, SPECTRO offers a complete range of mobile metal analyzer products, from handheld XRF to portable Arc

Selecting a mobile spectrometer requires balancing technical needs with budget constraints. The price is a function of its capabilities,

Discover high-precision spectrometers for accurate light analysis. Explore portable, compact designs with wide wavelength ranges

Browse our offerings below or contact our team to choose the best handheld spectrophotometer for your business. X-Rite's sphere

Now you can have a laboratory-grade spectrometer that fits in the palm of your hand, that you can use anywhere.

The SPECTROPORT portable arc spark spectrometer is ideal for many applications in the metal

Find, compare, and request a quote for portable spectrometers across leading suppliers at Labcompare; including access to product

Price of a mobile spectrometer

How much does a mass spectrometer cost? Explore price ranges, key factors, and what labs should budget for

Web: <https://supremeacademicresearch.co.za>

