

Price list for benchtop spectrometers



Article Overview

Benchtop spectrometers typically range from \$15,000 to over \$500,000 depending on technology, capabilities, and application requirements.

Price Ranges by Type

- **FTIR and UV-Vis Spectrometers:** Compact benchtop models for routine chemical analysis and quality control generally start around \$15,000–\$50,000, while advanced research-grade instruments with higher sensitivity, multi-analyte capabilities, or hybrid platforms can exceed \$100,000 .
- **XRF Spectrometers:** Benchtop XRF analyzers vary widely, with prices ranging from \$15,000 for basic models to \$500,000 or more for high-end systems with superior detection limits and multi-element analysis .
- **Mass Spectrometers:** Entry-level benchtop mass spectrometers start around \$50,000, while high-resolution or specialized systems (e.g., TOF, Orbitrap) can cost \$200,000–\$1,000,000+ .

Factors Influencing Cost

- **Technology and Detection Method:** Instruments combining multiple spectroscopy techniques (UV-Vis, FTIR, Raman, XRF) are more expensive due to their versatility .
- **Sensitivity and Resolution:** Higher detection limits, lower noise, and better repeatability increase the price .
- **Software and Connectivity:** Cloud integration, AI-powered spectral analysis, and LIMS compatibility add to the cost .
- **Regulatory Compliance:** Devices meeting ISO 17025, GLP, FDA, or CE standards may carry higher prices due to certification and calibration requirements

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Mass Spectrometer Costs: How Much Should You Budget?

Price Ranges for Mass Spectrometers Mass spectrometer costs vary widely based on technology, sensitivity,

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[Instrument Type Obviously the first factor we'll cover is instrument type, which plays a significant role in pricing:](#)

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