

How much does a benchtop spectrometer cost



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

Article Content

XRF Analyzer Price | SPECTRO Analytical Instruments

Handheld models are the most affordable option, starting around \$15,000, and are perfect for quick, on-site analysis. Benchtop

Mass Spectrometer Costs: How Much Should You Budget?

In this guide, we'll break down the factors that influence mass spectrometer pricing, compare cost ranges for different

A Practical 2025 Guide: 5 Factors Defining Infrared Spectrometer Cost

Abstract An inquiry into the financial dimensions of acquiring an infrared spectrometer reveals a complex landscape

FTIR Spectrometers | Sciencetech Inc.

TEO 200-X Benchtop FTIR Spectrometer with resolution upgrade to 0.5 The TEO-200-X series of FTIR spectrometers represent a

Mass Spectrometer Affordability Programs

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How much does a mass spectrometer cost? The typical price of a new mass spectrometer varies dramatically depending on the model.

Benchtop Spectrophotometers For Sale | HunterLab

Benchtop Non-Contact Directional Geometry This unique measurement method does not require instrument contact with your

How Much Does an XRF Spectrometer Cost?

Top-tier benchtop XRF analyzers, which give you advanced precision measurements and features, can cost \$65,000 -

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How much do NMR spectrometers cost? Prices for new NMR systems generally range from \$100,000 to over \$1,000,000, depending

Benchtop Spectrophotometers For Sale | HunterLab

Our benchtop spectrophotometers or colorimeters offer ultimate sample measurement precision & versatility. We offer devices for all

The Best NMR Spectrometers of 2026: A Buyer's Guide

Final Verdict on the Best NMR Spectrometers of 2026 Selecting the right instrumentation for

How Much Does a Mass Spectrometer Cost?

How much does a mass spectrometer cost? The simple answer is, "it depends." Mass

How Much Does a Scanning Electron Microscope (SEM) Cost?

Typically, new SEMs cost anywhere from \$50,000 to over \$1,000,000. The cost of scanning electron microscopes (SEMs) can vary

Analyzers

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When purchasing, also review the compatibility with upstream devices such as LC systems and software support, from either the

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How much does spectroscopy equipment cost? Prices for new spectroscopy systems generally range from \$15,000 to \$200,000,

Bench top NMR prices/practicality : r/Chempros

Also, how has the quality held up overtime? They are apparently maintenance free but were there any unexpected additional costs

How much does a spectrophotometer cost? Find accurate pricing

Top Spectrophotometer Options: Price and Feature Comparison Below is a comparative overview of various

Benchtop NMR Spectrometers | Compare | Review | Quote

Benchtop NMR Spectrometers (NMR) measure the quantum mechanical magnetic properties of atomic nuclei when exposed to a

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How much does Raman Spectroscopy Equipment cost? Prices for new Raman spectroscopy systems

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Prices for new benchtop NMR systems generally range from \$30,000 to \$150,000, depending on the field strength, features, and

XRF analyzer price

How much does an XRF Analyzer Cost? There are a wide variety of XRF analyzers on the market, ranging from handhelds and

How Much Does an EPR Spectrometer Cost? Complete Price Guide

Understanding EPR Spectrometer Prices When planning an EPR spectrometer purchase, one of the most common

Buy Infrared and FTIR Spectrometers For Sale, New & Used Prices

How much do IR/FT-IR systems cost? New IR and FT-IR systems typically range from \$15,000 to \$150,000, depending on the

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