

Price of High-Performance Spectrometer



Article Overview

High-performance spectrometers can range from \$50,000 for entry-level models to over \$2.5 million for top-tier mass spectrometry systems, depending on type, resolution, and manufacturer.

Mass Spectrometers

The cost of mass spectrometers varies widely based on technology and performance:

- Quadrupole systems: \$50,000–\$150,000, suitable for routine analysis in pharmaceuticals and environmental testing .
- Time-of-Flight (TOF) systems: \$200,000–\$500,000+, offering high resolution for proteomics and metabolomics .
- Ion Trap systems: \$100,000–\$300,000, ideal for structural analysis and drug discovery .
- Orbitrap systems: \$400,000–\$1,000,000+, providing high-resolution accuracy for complex biological studies .
- Fourier Transform Ion Cyclotron Resonance (FT-ICR): \$1.5 million–\$2.5 million, ultra-high-resolution instruments for advanced research . Used mass spectrometers can be significantly cheaper, e.g., FT-ICR systems may cost \$100,000–\$1,500,000, and triple quadrupole systems \$15,000–\$250,000 .

Optical and Raman Spectrometers

Preconfigured optical and Raman systems vary depending on wavelength range, sensitivity, and included accessories:...

Article Content

High Resolution Spectrometer Manufacturer and Supplier

LightMachinery is a high-resolution spectrometer manufacturer and supplier. We are setting the new standard for range, resolution,

Amazon : Spectrometer

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

Mass Spectrometer Costs: A Comprehensive Guide to Pricing

The Ultimate Guide to Mass Spectrometer Costs and Features When considering a mass spectrometer for your

Mass Spectrometer for sale | Buy on Bimedis

New, used, and refurbished Mass Spectrometer for sale Affordable prices Expert assistance Order now on Bimedis marketplace

QE Pro Spectrometer Instruments | Spectrecology

The QE Pro is a high-sensitivity spectrometer with low stray light performance and is ideal for a wide range of low-light level

Compact Spectrometer Products | Pembroke Instruments

Compact spectrometer from Pembroke Instruments offer flexibility and high performance at an affordable price.

XRF Spectrometer New & Used Prices

XRF Spectrometer XRF spectrophotometers are essential analytical instruments used for elemental analysis in a variety of

Amazon : Spectrometers

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

Spectrometers BRUKER for sale (used, price) > CAE

Discover the advanced analytical solutions of BRUKER, a leading manufacturer of spectrometers widely used in scientific and

Mass Spectrometers | Lease/Finance Or Buy On KWIPPED

Lease/finance or buy Mass Spectrometers. Get multiple quotes from competing suppliers and lenders on one platform. All major

Buy Mass Spectrometers For Sale, New & Used Prices | LabX

New models can offer enhanced performance, efficiency, and ease-of-use -- while used models may provide suitable performance at

High-Performance & Speed Spectrometers | Spectrecology

High-performance spectrometers also offer amplified charge-coupled device (CCD) and complementary metal-oxide-semiconductor

How Much Does an XRF Spectrometer Cost?

Ever wondered how much an XRF spectrometer really costs? The answer isn't so simple, it depends on a variety of

XRF Analyzer Price | SPECTRO Analytical Instruments

Benchtop systems, priced between \$30,000 and \$150,000 or more, offer higher precision and advanced capabilities for laboratory or

Mass Spectrometer Cost: A Comprehensive Guide to Pricing and

Conclusion Investing in a mass spectrometer is a crucial decision for any laboratory. Understanding the various

Spectroscopy

The Thermo Scientific™ ARL™ X900 XRF Spectrometer is a robust WDXRF analyzer with XRD capability that provides quick,

Spectroscopy Ninja

The System comes with a Ramulaser-Vial Raman laser with adjustable power from 0-499mW with an integrated vial holder and

Spectrometers & Spectroscopy Equipment | Edmund Optics

Edmund Optics offers a range of optical spectrometers and compatible accessories. Our selection includes gas cells, reflectance

Spectrophotometer Pricing Guide: What to Expect

The cost of a spectrophotometer depends on its technology, wavelength range, and functionality, ranging from a few

High Performance Spectrometer Market in the world | Report

This report provides an in-depth analysis of the High Performance Spectrometer market in the world, covering market

Shop Spectroscopy Instruments For Sale, New and Used Prices | LabX

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

Mass Spectrometers | LCMS Instruments | GCMS Systems

GenTech Certified Refurbished Mass Spectrometers – Performance and Affordability. GenTech Scientific offers an extensive

Mass Spectrometer Trade-In and Upgrade

Boost productivity at a more affordable price Elevate your lab's capabilities by trading in your current LC-MS system. Whether it's a

Factory-Certified Refurbished Mass Spectrometers

Save on refurbished mass spectrometers certified by the industry-leading manufacturer of scientific instruments. Find a used mass

Spectrophotometer Pricing Guide: What to Expect

Factors That Influence Spectrophotometer Pricing The cost of a spectrophotometer can vary significantly depending

Spectrographs and Monochromators | FindLight

High Performance Raman Spectrometer Omni-iSpecT High Performance Raman Spectrometer Combining volume phase

Shop Thermo Scientific Q Exactive For Sale, New and Used Prices

Thermo Scientific Q Exactive The Thermo Scientific Q Exactive is a high-performance liquid chromatography-mass spectrometry (LC

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