

Article Overview

The price of a spectrometer varies widely, from a few thousand dollars for basic models to over \$1 million for high-end mass spectrometers.

General Pricing Overview

The cost of a spectrometer depends heavily on its type, technology, and features. Basic benchtop spectrophotometers for UV-Vis applications typically start at a few thousand dollars, suitable for routine DNA, RNA, or protein measurements in academic or small biotech labs . Mid-range models with double-beam designs, microvolume capabilities, or fluorescence detection can range from \$10,000 to \$50,000, offering higher accuracy, automation, and advanced data analysis . High-end fluorescence or infrared spectrometers with expanded wavelength ranges and automation can exceed \$50,000 .

Mass Spectrometers

Mass spectrometers are significantly more expensive. Entry-level benchtop mass spectrometers may start around \$50,000, while high-end systems such as Orbitrap or Fourier Transform models can cost from \$400,000 to over \$2,500,000 depending on resolution, sensitivity, and application . Specialized systems like Q-TOF or MALDI-TOF also have wide price ranges, from \$50,000 to over \$1,000,000 for new units, with used models available at lower prices .

Factors Affecting Price

Several factors influence spectrometer pricing:

- o Technology type: UV-Vis, fluorescence, NIR, or mass spectrometry
- o Wavelength range and sensitivity
- o Automation and microvolume capabilities
- o Brand and customization options
- o Operational costs: consumables, software, and service contracts for mass spectrometers

Buying Options

Spectrometers can be purchased new, used, or leased. Online marketplaces like Amazon and eBay offer a range of models, often with free shipping and competitive pricing for smaller instruments . For high-end mass spectrometers, labs typically request quotes from manufacturers to account for customization and service packages . In summary, basic spectrophotometers start at a few thousand dollars, mid-range models can reach \$50,000, and advanced mass spectrometers may exceed \$1 million, with the final price depending on



Spectrometer full price

technology, features, and lab requirements .

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



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