

Price List for Classic Spectrometers

Article Overview

Classic spectrometers typically range from around \$60 to \$70,000, with an average price near \$11,625 depending on type, features, and vendor.

Price Range Overview

The cost of spectrometers varies widely based on technology, brand, and application. According to Bimedis, prices start at approximately \$61 for basic models and can reach up to \$70,000 for high-end instruments, with an average price of \$11,625 across 235 listings . eBay and Labexchange also offer both new and used spectrometers, often at lower prices for pre-owned units, providing cost-effective options without compromising quality .

Factors Affecting Price

o Type of Spectrometer:

- o UV-Vis spectrophotometers are generally more affordable and widely used for nucleic acid and protein quantification.
- o Fluorescence spectrometers are more expensive due to higher sensitivity and specialized optics.
- o Near-infrared (NIR) spectrometers are used for pharmaceutical and material analysis and may require custom calibration, increasing cost .

o Features and Automation:

- o Basic benchtop models cost a few thousand dollars.
- o High-end models with microvolume capabilities, automation, or advanced software can exceed \$50,000 .

o New vs. Used:

- o Used spectrometers can significantly reduce costs while still providing reliable performance, often accompanied by service reports and functional certificates .

o Application Requirements:

- o Laboratory precision, sample type (liquid, solid, or gas), and workflow demands influence the choice and price of the spectrometer .

Summary

For labs or individuals seeking classic spectrometers, expect to pay anywhere from a few hundred dollars for basic portable models to tens of thousands for advanced, automated systems. Evaluating the type, features, and whether a used or new unit is suitable will help determine the most cost-effective option for your needs .

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