Raman Spectrometer Price Quote

Overview

Raman Spectrometer | Labcompare.comFind, compare, and request a quote for Raman spectrometers across leading Raman Spectroscopy Instrument Pricing: A Compr.

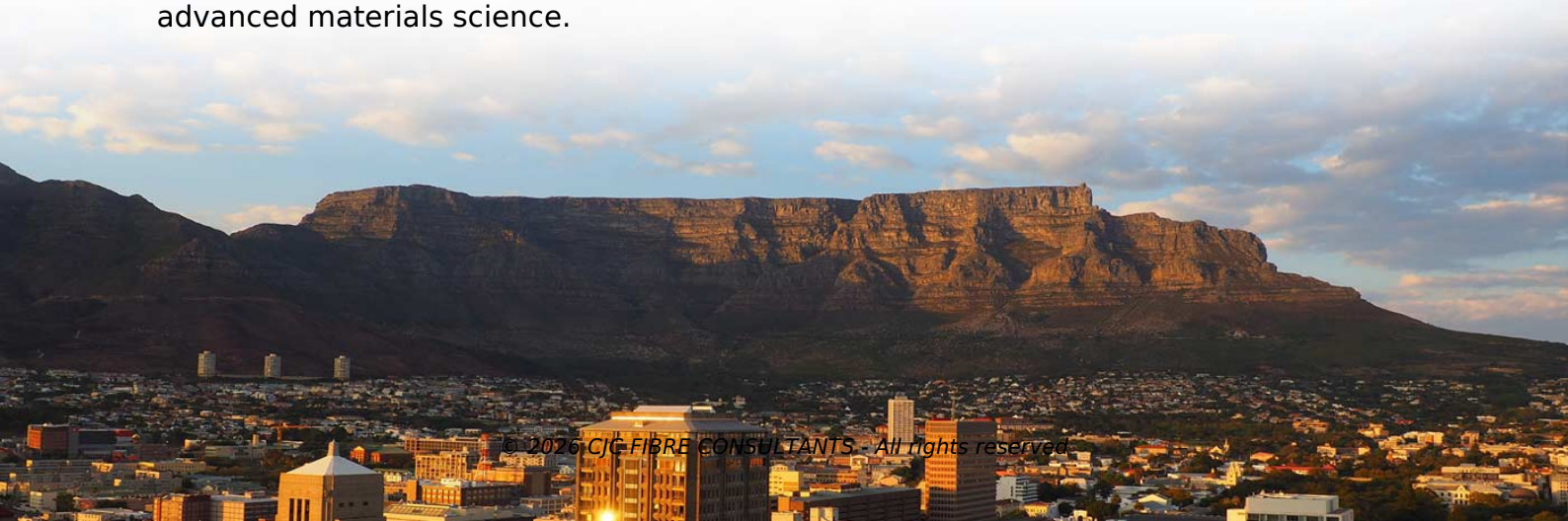
Key Takeaways

Raman spectrometers range from approximately $1,372 for low-cost educational models to $500,000 or more for high-performance research microscopes.

Price Overview

Handheld Raman spectrometers: Typically priced between $5,000 and $50,000, depending on sensitivity, laser wavelength, and portability. These are ideal for field analysis, on-site inspections, and rapid substance identification in industries like forensics, pharmaceuticals, and food safety. Benchtop Raman spectrometers: Generally cost $20,000 to $150,000, offering higher stability, sensitivity, and spectroscopic accuracy suitable for materials science, polymer research, and chemical characterization.

High-performance Raman microscopes: These advanced systems, integrating microscopy and spectroscopy for ultra-high resolution, can range from $150,000 to $500,000+, commonly used in biopharmaceuticals, semiconductor research, and advanced materials science.



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Factors Affecting Price

Instrument type: Handheld, benchtop, or microscope-grade systems significantly influence cost. Laser excitation wavelength: Common options include 532 nm (lower cost, stronger signal but more fluorescence), 785 nm (mid-range, balanced performance), and 1064 nm (higher cost, fluorescence suppression),. Resolution and sensitivity: Higher spectral resolution and sensitivity increase price.

Additional features: Software, spectral libraries, automated calibration, and multi-modal integration (e.g., FTIR/NIR) can add to the cost. New vs. used: Used systems can reduce costs by 30–50%, with prices ranging from $10,000 to $100,000 depending on condition and manufacturer.

Affordable and Educational Options

For academic or budget-conscious labs, low-cost Raman systems start around $1,372, providing essential functionality for teaching and basic research. These models are suitable for introducing students to Raman spectroscopy without the high investment of research-grade instruments.

Summary

Raman spectrometer pricing varies widely based on type, performance, and features. Handheld units are the most affordable, benchtop systems offer a balance of performance and cost, and high-end microscopes provide advanced capabilities for specialized research. Considering your application, mobility needs, and budget will help determine the most suitable option.

Article Content

Raman Spectroscopy Instrument Pricing: A Comprehensive Guide

The cost of a Raman spectrometer varies widely, from $10,000 for basic handheld models to $500,000 or more for high-performance Raman microscopes. Several factors contribute to

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Raman Spectrometers

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The Comprehensive Guide to Raman Spectrometer Costs and Applications Raman spectroscopy is an essential analytical technique used across various industries to provide insights

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