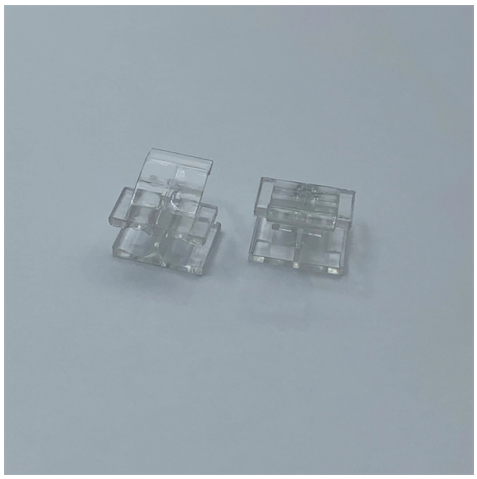
Monochromator Spectrometer Price



Overview

What is the difference between a Monochromator and a Spectrometer? A spectrometer captures the entirety of the UV and visible spectrum, providing values at every wavelength.

Key Takeaways

Monochromator spectrometer prices vary widely, typically ranging from a few thousand to tens of thousands of dollars depending on specifications, brand, and configuration. Price Ranges and SuppliersEntry-level and compact models: Small OEM or benchtop monochromators can start around $2,000–$5,000, suitable for basic laboratory measurements or educational purposes. Mid-range research-grade instruments: Standard Czerny-Turner or Seya-Namioka monochromators with tunable gratings and moderate spectral range often cost $10,000–$25,000.

High-performance or specialized systems: Double or triple monochromators for Raman spectroscopy, deep-UV, or VUV applications, often with cooled detectors and advanced gratings, can exceed $50,000, reflecting their precision and low stray light performance.

Factors Affecting Price

Optical configuration: Czerny-Turner, Seya-Namioka, or flat-field designs influence cost and performance. Spectral range and resolution: Wider spectral coverage (e.g., 200–2200 nm) and higher resolution increase price. Grating type: Holographic, blazed, or volume phase holographic gratings affect efficiency and cost.

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Detector integration: Systems with cooled CCDs or photomultiplier tubes are more expensive than single-element detectors. Brand and support: Established manufacturers like HORIBA, Sciencetech, and Zolix often command higher prices due to reliability and service.

Where to Compare and Purchase

Supplier websites: Platforms like FindLight allow you to compare multiple monochromators and request quotes directly from suppliers. Manufacturer catalogs: HORIBA, Sciencetech, and RP Photonics provide detailed specifications and guidance for selecting models. Online marketplaces: eBay and similar platforms offer used or surplus monochromators at lower prices, though condition and warranty vary.

Recommendation

For accurate pricing, it is best to contact suppliers directly with your required specifications, including spectral range, resolution, and intended application. This ensures you receive a tailored quote and can compare options effectively. Additionally, consider whether a new or used instrument meets your budget and performance needs.

Article Content

Spectrographs and Monochromators | FindLight

What is the difference between a Monochromator and a Spectrometer? A spectrometer captures the entirety of the UV and visible spectrum, providing values at every wavelength.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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