How much does a dual-channel spectrometer cost



Overview

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

Key Takeaways

Dual-channel spectrometers typically range from $3,000 to $60,000 depending on configuration, brand, and features, with exact quotes available directly from vendors.

Overview of Dual-

Channel SpectrometersDual-channel spectrometers allow simultaneous measurements or higher resolution compared to single-channel systems. They are used in applications such as reflectance, absorbance, fluorescence, and multi-wavelength analysis. Popular models include the AvaSpec StarLine dual-channel spectrometers, which can be configured with two AvaSpec-ULS2048CL or ULS4096CL spectrometers for independent operation.

Other options include preconfigured dual-radiometer systems covering UV to NIR ranges (250–1700 nm) with NIST-traceable calibration.

Price Ranges



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New spectrophotometers and dual-channel systems: $3,000 to $60,000, depending on wavelength range, sensitivity, and additional features. High-end or specialized dual-channel systems (e.g., advanced fluorescence detection, extended UV-Vis-NIR coverage): typically at the upper end of the range, $40,000–$60,000. Used or refurbished systems: $1,000 to $30,000, depending on condition, brand, and capabilities.

How to Obtain a Formal QuoteContact vendors directly: Companies like Avantes, CIQTEK, Shimadzu, Agilent, PerkinElmer, and Thermo Fisher Scientific provide quote requests through their websites. Specify configuration needs: Include wavelength range, resolution, fiber optic accessories, and calibration requirements. Request additional services: Some vendors offer software packages, calibration certificates, and technical support, which can affect pricing.

Recommendations

For general laboratory applications, a mid-range dual-channel spectrometer ($5,000–$20,000) is often sufficient. For high-precision or research-grade applications, consider systems with NIST-traceable calibration and extended spectral coverage, which may cost $40,000 or more. Always request a custom quote to ensure the system meets your specific measurement requirements and includes any necessary accessories or software.

By contacting vendors directly, you can obtain accurate, up-to-date pricing and explore options for both new and used dual-channel spectrometers.

Article Content

Spectrometry: Industrial & Scientific

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When purchasing, also review the compatibility with upstream devices such as LC systems and software support, from either the manufacturer or vendor. How much does a mass spectrometer cost? The

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How much does spectroscopy equipment cost? Prices for new spectroscopy systems generally range from $15,000 to $200,000, depending on the type of spectroscopy, sensitivity, and advanced features.

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Real-world OES spectrometer price ranges for 2026 -- entry-level to high-end, Chinese vs Western brands, plus total cost of ownership and how to get a meaningful quote.

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Dual Channel Spectrometer | StarLine | Avantes

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