

Article Overview

Dual-channel fiber optic spectrometers typically range from \$5,000 to over \$25,000 depending on configuration, detector type, and spectral resolution.

Overview of Pricing

Dual-channel spectrometers are specialized instruments designed for simultaneous measurements or higher resolution applications. Prices vary widely based on manufacturer, detector type, spectral range, and additional features:

- o Avantes StarLine Dual-Channel Spectrometers: These can be configured with AvaSpec-ULS2048CL or ULS4096CL detectors. Pricing is customized based on configuration, and potential buyers are advised to contact Avantes for a quote .
- o Mightex Multi-Channel Fiber Spectrometers: Compact, high-throughput systems with CCD detectors are designed for multiple simultaneous channels. These are generally lower-cost options for multi-channel setups, but exact pricing depends on the number of channels and accessories .
- o HORIBA PoliSpectra MultiTrack Systems: High-end OEM spectrometers capable of 8-32 simultaneous channels with sCMOS sensors. These systems are premium instruments, often exceeding \$20,000-\$25,000 for fully configured setups .
- o SIMTRUM S Series Dual-Path Spectrometers: Portable systems with Hamamatsu detectors and dual optical paths, optimized for high resolution and fast acquisition. Pricing is mid-range to high-end, typically in the \$10,000-\$15,000 range, depending on the number of channels and software options .
- o Ocean Optics / Edmund Optics: Offers modular dual-channel spectrometers suitable for lab and field applications. Prices for compact dual-channel systems generally start around \$5,000-\$8,000, with higher-end models exceeding \$15,000 depending on spectral range and accessories .

Factors Affecting Cost

- o Detector Type: CCD, sCMOS, or back-illuminated sensors significantly influence price. Higher sensitivity and lower noise detectors cost more.
- o Spectral Resolution and Range: Instruments with higher resolution or broader UV-NIR coverage are more expensive.
- o Number of Channels: Dual-channel systems are more costly than single-channel, and multi-channel systems (8-32 channels) increase the price substantially.
- o Software and Integration: Advanced software for real-time acquisition, peak detection, and multi-platform SDK support can add to the cost.
- o Accessories: Fiber bundles, light sources, and optional nitrogen purge or temperature control systems increase overall pricing.

Price of Dual-Channel Fiber Optic Spectrometer

Recommendation

For an accurate price, it is best to contact the manufacturer or authorized distributor with your specific requirements, including spectral range, resolution, number of channels, and intended application. This ensures a quote tailored to your configuration and avoids overpaying for unnecessary features. In summary, dual-channel fiber optic spectrometers generally cost between \$5,000 and \$25,000, with high-end OEM systems exceeding this range depending on customization and performance specifications.

With in-stock availability and seamless integration into your workflow, Ocean Optics solutions from Edmund Optics offer a convenient

PoliSpectra®; M116 MultiTrack Spectrometer Multispectra, Multifiber, Multichannel Imaging spectrometer

In these pages, you'll discover a vast array of high-quality spectrometers, light sources, fiber optics, software, and accessories

Buy fiber optical spectrometer for metal analysis with reflectance and transmittance detection. Average price around \$8698. Bulk

Dual channel Thermo-Electric Cooled Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel TE cooled

Dual-channel AvaSpec-EVO fiber-optic spectrometer with two channels with the same detector in one housing, including

Compact, versatile spectrometers covering UV, Visible and NIR wavelengths are available for lab, field and process solutions.

Dual channel Thermo-Electric Cooled Fiber Optic Spectrometer, 75 mm 7.285,00 Avabench, 2048 pixel TE cooled and regulated

AvaSpec -USB1.1 platform The AvaSpec USB1.1 platform Fiber Optic Spectrometers can be configured as single, dual, triple,

AvaSpec Multi-channel Fiber Optic Spectrometers -USB1.1 platform The AvaSpec USB1.1 platform Multi-channel



Price of Dual-Channel Fiber Optic Spectrometer

Multi-channel-Spectrometer,CNI provides fiber optic spectrometer, raman spectrometer,fluorescence spectrometer,LIBS,

Great seller! Price was right, packing secure, and shipping was very fast. Thanks!

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In addition, the AvaSpec-ULS2048 is available with a wide range of slit sizes, gratings and fiber-optic entrance connectors to

Discover a range of materials, connectors, and core sizes for your ideal solution. While light sources provide the radiation needed for

A dual-channel Raman spectrometer was designed by adjusting the structural parameters through the multi-field-of

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