

Fiber Optic Grating Spectrometer Manufacturer



Overview

Fiber Optic Spectrometer | Fiber Optic Spectrometer Manufacturer We manufacture Fiber Optic Spectrometers offering precise spectral analysis with adjustable.

Key Takeaways

Leading manufacturers of fiber optic grating spectrometers include HORIBA Scientific, Ibsen Photonics, and Labotronics, offering high-performance, customizable spectrometer solutions for scientific, industrial, and OEM applications. HORIBA Scientific

HORIBA provides a wide range of OEM grating spectrometers, from miniature fiber-coupled units to research-grade systems with TE or LN₂-cooled CCD and InGaAs detectors. Their instruments cover spectral ranges from 180 to 1700 nm, offering high spectral and spatial resolution, low stray light, and multi-channel measurement capabilities. HORIBA's spectrometers are suitable for applications such as Raman spectroscopy, SD-OCT, and push-broom imaging, and they provide ultra-compact fiber-coupled units for portable or field use (Horiba Scientific) .

Ibsen Photonics



Ibsen Photonics specializes in OEM spectrometers and transmission gratings, supplying compact, high-performance spectrometers for UV, VIS, NIR, Raman, OCT, and fiber sensing. Their technology is based on fused silica transmission gratings and phase masks, enabling robust, low unit-to-unit variation instruments suitable for harsh industrial environments. Ibsen emphasizes custom designs, fast delivery, and integration support, making them a preferred partner for industrial and research applications (Ibsen Photonics) .

Labotronics

Labotronics manufactures fiber optic spectrometers designed for precise spectral analysis in chemical research, material identification, environmental monitoring, and biomedical applications. Their systems feature adjustable wavelength control, multiple grating options, and real-time digital displays for monitoring spectral data. Labotronics spectrometers are compact and flexible, suitable for both laboratory and field applications, and utilize fiber optic probes to direct light through diffraction gratings for accurate wavelength separation (Labotronics) .

Summary

These manufacturers provide high-precision, fiber-coupled grating spectrometers with options for OEM customization, broad spectral coverage, and specialized applications. When selecting a supplier, consider factors such as spectral range, detector type, grating technology, compactness, and support for integration into your specific application. HORIBA and Ibsen are particularly strong in OEM and industrial-grade solutions, while Labotronics offers flexible, research-focused instruments suitable for both lab and field use.

Article Content

Fiber Optic Spectrometer | Fiber Optic Spectrometer Manufacturer

We manufacture Fiber Optic Spectrometers offering precise spectral analysis with adjustable wavelength, multiple gratings, and

Spectrometers | UV VIS NIR | Avantes

What Is Spectroscopy?What Is A Spectrometer?What Does A Spectrometer Measure?How Does A Spectrometer Work?What Is A Spectrometer Used for?What Is The Function of A Spectrometer?There are many different types of spectrometers. The kind of spectrometer depends on the needed measurement technique for your application. Avantes specializes in high-end fiber-optic spectroscopy systems which facilitate measurements in the ultra-violet, visible, and near-infrared wavelengths. Want to know more about how a spectrometer works? Read...See more on avantes Images of Fiber Optic Grating Spectrometer ManufacturerFiber SpectrometerOptical SpectrometerSpectrometer OpticsOptical Fiber SpectrophotometerFiber SpectrometerOcean Optics SpectrometerSpectrometer Design FiberMini Fiber Optic SpectrometerInfrared Fiber SpectrometerFundamentals of Grating Knowledge SharingRaman Spectroscopy, Fiber Optic Spectrometer - JINSPChina fiber optic spectrophotometer factoryFiber Optic Spectrometer LB-10FOS | Spectrometer ManufacturerOptical Spectrometers introduction - Must read - AvantesHigh-Compatibility Fiber Optic Spectrometer for Raman SpectroscopyFiber Optic Spectrometer B3000MAR-SPEC Fiber Optic Spectrometer at ₹ 600000/piece in Bengaluru | ID ...News - Fiber optic spectrometerPortable High Flux Fiber Optic Raman SpectrometerHigh-Compatibility Fiber Optic Spectrometer for Raman SpectroscopySee all imagesHORIBA

Optical Spectrometer | Grating Spectrometer | Mini

High performance fiber optic mini spectrometer for OEM industrial volumes

Fiber Optic UV-VIS, NIR & Raman Spectrometers

Explore StellarNet miniature fiber optic spectrometers for UV-VIS, NIR, Raman, fluorescence, radiometry, process

Fiber optic spectrometer

Find your fiber optic spectrometer easily amongst the 28 products from the leading brands (ABB, Malvern Panalytical, Andor, ...) on

Avantes USA

Precision Fiber Optic Spectrometers and Optical Spectroscopy Solutions Avantes develops high-performance fiber

Optical spectrometer

Find your optical spectrometer easily amongst the 136 products from the leading brands (Hitachi, ABB, SPECTRO, ...) on

Bragg Gratings – Buyer's Guide & Supplier List | RP Photonics

Encyclopedia article: Bragg gratings Top-level product category: optical components and devices diffractive optics diffraction

Modular Spectrometer

Modular spectrometer is also called fiber optic spectrometer, micro spectrometer. Optosky provides complete lines of miniature

Spectrometers

Optical spectroscopy measures light in the ultraviolet (UV), visible (Vis), and near-infrared (NIR) regions of the electromagnetic

Optical Gratings

Product Portfolio Together with our partner suppliers, AMS Technologies realizes optical gratings in various forms for a broad range

Optical Grating Manufacturers

Furthermore, gratings play a vital role in telecommunications, enabling wavelength division multiplexing (WDM) in fiber-optic

Fibre Bragg Grating Sensor

4.3.2 Fibre Bragg grating (FBG) sensors For experimental stress analysis, the most highly developed common fibre-optic sensor is

Fiber Optic FBG Fiber Bragg Grating Sensing Solutions | AtGrating

As a fiber Bragg grating manufacturer in China, AtGrating specialized in the fields of FBG, FBG sensor, wavelength interrogator and

USB4000 Fiber Optic Spectrometer Installation and Operation

Introduction Product Overview The Ocean Optics USB4000 Spectrometer is our next generation, high-performance, miniature fiber

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

