

Optics Spectrometer Manufacturing Equipment



AI Overview

Optical spectrometer manufacturing equipment includes industrial-grade, OEM, and high-resolution spectrometers designed for integration into laboratory, industrial, and custom applications. Overview of Spectrometer Types and Applications Optical spectrometers are devices that measure light intensity across wavelengths to analyze the spectral characteristics of materials. They are widely used in material identification, environmental testing, display calibration, optical metrology, Raman spectroscopy, and NIR/UV-VIS applications. Spectrometers typically use diffraction gratings or prisms to disperse light and capture detailed spectral data, and they can be integrated into custom systems for laboratory or industrial use (Edmund Optics).

OEM and Industrial-Grade Spectrometer Solutions Several manufacturers specialize in OEM spectrometer modules and industrial-grade equipment: HORIBA provides OEM solutions for spectroscopy and imaging, offering customizable spectrometers, monochromators, diffraction gratings, and scientific cameras. Their solutions cover VUV to near-infrared wavelengths and are suitable for volume manufacturing with a minimum order of 50 units, supporting integration into analytical instruments and industrial applications. Ibsen Photonics offers robust, athermal, industrial-grade spectrometers with high sensitivity and resolution. Their platforms include PEBBLE (ultra-compact), FREEDOM (compact and cost-effective), ROCK (high throughput), and EAGLE (optimized for SD-OCT and Raman spectroscopy). These spectrometers are designed for UV-VIS-NIR, visible, and ultraviolet ranges, with minimal unit-to-unit variation and seamless system integration. LightMachinery specializes in high-resolution spectrometers for research and industrial applications, offering resolutions down to 1 pm and compact designs suitable for bright sources and Brillouin spectro...

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Optical Manufacturing Tools and Machinery

These tools and machinery are essential for producing high-precision optical components, such as lenses, mirrors, prisms, filters, and optical fibers, with the required optical properties and

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Edmund Optics offers a range of optical spectrometers and compatible accessories. Our selection includes gas cells, reflectance standards, phantom samples, fiber

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OEM Spectrometers and Transmission Gratings

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Oceanhood MS13913 Near-Infrared Fiber Optic Spectrometer

The Oceanhood MS13913 is a compact, high-stability near-infrared (NIR) fiber optic spectrometer engineered for industrial process monitoring, laboratory research, and field-deployable spectroscopic

Contact Us

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