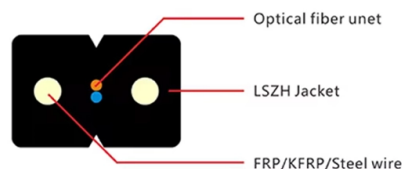


Laboratory-grade spectrometer



AI Overview

Lab-grade spectrometers are high-precision instruments used to measure light spectra for material analysis, offering accuracy, versatility, and calibration traceable to national standards. Overview Lab spectrometers are essential tools in scientific research, capable of measuring the wavelengths and intensities of light emitted, absorbed, or transmitted by a sample. They are widely used in chemistry, physics, biology, materials science, and environmental monitoring to identify substances, quantify concentrations, and study optical properties under controlled conditions.

These instruments provide high precision and reproducibility, making them suitable for both research and industrial applications.

Types of Lab Spectrometers UV-Vis Spectrophotometers – Measure absorption in the ultraviolet and visible ranges, commonly used for protein, nucleic acid, and chemical analysis.

Infrared (IR) Spectrometers – Analyze molecular vibrations to identify chemical bonds and functional groups.

Fluorescence Spectrophotometers – Detect emitted light from excited samples, useful in biomolecular studies.

Atomic Absorption Spectrometers – Measure elemental concentrations by analyzing light absorption at specific wavelengths.

Optical Spectrometers (e.g., GL SPECTIS 5.0) – Portable or benchtop devices with lab-grade CCD sensors, covering extended spectral ranges from UV to NIR (200–1050 nm), calibrated for absolute measurements.

Key Features High Accuracy and Calibration: Many lab-grade spectrometers are calibrated using reference standards traceable to national laboratories, ensuring reliable results.

Versatility: Instruments can measure across multiple wavelength ranges and support various experimental setups, from environmental monitoring to LED testing.

Precision Components: Features like adjustable slits, achromatic lenses, and goniometer-type rotation tables enhance measurement accuracy in models like the Eisco PH0619.

Software Integration: Advanced spectrometers include software for data analysis, r...

Article Content

Laboratory Spectrometers & Spectrophotometers – MSE Supplies

We offer a selection of UV/VIS spectrophotometers and luminometers that provide precise measurements for a variety of research applications, from analyzing light absorption in materials to

GL SPECTIS 5.0 Touch Optical Spectrometer

Using this state-of-the-art spectral light measurement instrument, you can get lab grade data anywhere you go. Our light spectrometers are individually calibrated to deliver precise results quickly, with

ASD LabSpec | NIRS Spectrometers & Spectrophotometers

The ASD LabSpec line of laboratory instrumentation offers laboratory-grade performance in a ruggedized, portable design suitable for benchtop analysis or transport to the sample location. ASD

Senior Manufacturing Engineer at SF hardware startup miniaturizing lab ...

Senior Manufacturing Engineer - NPI Salary Not Disclosed Company Description San Francisco hardware startup miniaturizing lab-grade spectroscopy into field-deployable embedded

Skyray Benchtop XRF Spectrometer for Fast Elemental Analysis

☐☐ Is Your Lab Still Sending Samples Out for Elemental Analysis? If you're in manufacturing, electronics, or metals — chances are you're dealing with RoHS compliance, coating thickness ...

12 Best Spectrophotometers for Labs (July 2026) guide

Discover the best spectrophotometers for labs with our 2026 expert guide. We tested 12 models for wavelength accuracy, photometric precision, and real-world lab performance.

Laboratory spectrometer, Lab spectrometer

The DS2500 Analyzers are compact near-infrared (NIR) spectrometers for use in the lab as well as in production. These instruments combine efficiency and intuitive operation with flexibility and robustness.

Laboratory Spectrometers & Spectrophotometers – MSE Supplies

Laboratory Spectrometers & Spectrophotometers Spectroscopy and Analytical Instrumentation Our range of spectroscopy and analytical instrumentation is crafted to meet the precise needs of PhD

Spectrophotometry

Instruments and accessories for measuring the amount of ultraviolet and/or visible light absorbed by a sample. Suited for the determination of solute concentrations

Eisco Labs High Quality, Standard Spectrometer

The Eisco PH0619 laboratory-grade goniometer-type spectrometer has 0 to 360 degree rotation, 1 degree graduations, and a 0.1 degree vernier scale to provide hands-on experience observing and

Contact Us

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