

Spectrometer Models and Specifications



Overview

Specifications of spectrometers vary depending on type of technique and model, but there are a few points of interest that are applicable across the board, including the instrument's spectral range, the dispersion of the grating or size of the spectra on the array; its. Specifications of spectrometers vary depending on type of technique and model, but there are a few points of interest that are applicable across the board, including the instrument's spectral range, the dispersion of the grating or size of the spectra on the array; its. Spectrometers are analytical instruments used to identify the characteristics of materials by measuring the emissions and absorption of electromagnetic spectra. The range of spectroscopic techniques is vast, and can be subdivided by what is being measured and how it is being measured: The beauty of. Optical spectroscopy is a technique that analyzes how light interacts with matter to reveal the spectral characteristics of a sample. By using an optical spectrometer to measure light intensity across wavelengths, users can determine a sample's composition through precise, non-destructive analysis. Suited for the determination of solute concentrations within samples, quality control, analysis of sample purity, and classroom learning. For routine, complex research and advanced. The Go Direct Visible Spectrophotometer is a robust, portable visible spectrophotometer.



Article Content

How to choose a spectrometer

Spectrometers with low wavelength and power shift vs. temperature Lens-based, tele-centric rather than mirror-based spectrometers All-dielectric, transmission grating based rather than reflection grating

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

Spectrophotometers (UV-Vis/NIR, FL) : Hitachi High

Hitachi offers a full range of high quality UV-Visible/NIR and Fluorescence spectrophotometers from teaching and routine instruments to research-grade

Elemental Analysis Solutions & Analytical Instruments | SPECTRO

SPECTRO is a global leading supplier of advanced analytical instruments like ICP, Arc Spark OES, and XRF spectrometers for precise elemental analysis of materials.

Spectrometer Specifications

In the very general sense of the word, every spectrometer is a filter and every filter is a spectrometer. Each is a device for isolating a relatively small portion of the entire spectrum. Thus, in this section

Spectrometers

Compare Spectrometers from top manufacturers by specifications. Click to learn more.

Infrared Spectrometers Selection Guide: Types,

Specifications Selecting infrared spectrometers requires an analysis of performance specifications such as wavelength range, resolution, accuracy, and infrared

Product: Spectrum 3 Tri-Range MIR/NIR/FIR Spectrometer

Spectrum 3 Tri-Range MIR/NIR/FIR Spectrometer From routine identification and verification to advanced research applications, you need the performance and

Spectrometers & Spectroscopy Equipment | Edmund

Explore optical spectrometers, systems, and components for spectroscopy, detection, and analysis. Ideal for UV-VIS, NIR, Raman, and fluorescence

Spectrometer Modules | UV-NIR spectrometers from

ZEISS Spectrometer modules are designed for the stresses of process control. The ideal components for your measuring system in the UV, VIS and NIR range.

Product: Spectrum Two FT-IR Spectrometer

Spectrum Two FT-IR Spectrometer Easy to use, powerful, compact and robust – Spectrum Two™ is the FT-IR spectrometer of choice for everyone, everywhere.

Miniature Spectrometers

This article provides the specification of various ILT spectrometer models and explains how we quantify these specs to help our customers select the best

UV-Vis-NIR Spectrophotometers

UV-Vis-NIR spectroscopy measures the transmittance, absorbance and reflectance of a sample. UV-Vis-NIR spectrophotometers measure the amount of light that passes through the sample, comparing it

UV-Vis/NIR Spectrophotometers | V-700 Series | JASCO

Compare JASCO V-700 Series UV-Vis/NIR spectrophotometers from the far-UV (187 nm) to the NIR (3200 nm). Explore models, specs, applications, and

How to Choose the Right Spectrometer | Ocean Optics

Learn how to choose a spectrometer by understanding key features like sensitivity, speed, and resolution. Use our Spectrometer Selector tool.

Guide to choosing spectrometers: Parameters and tips

Learn how to choose the right spectrometer for your needs. Understand key parameters like wavelength range and resolution. Get expert tips!

Spectrometers

Find the best model for your application. Save time and space with our suite of spectrometers. These innovative, easy-to-use instruments have a small footprint

The Best Spectrophotometers: A Buyer's Review of

Discover the top spectrophotometers of 2026 for research and industry. Compare updated models from Shimadzu, DeNovix, and Agilent for

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