

Selection of High-Performance Spectrometers



Overview

This e-book includes an extensive collection of useful guides to choosing the correct configuration of your next spectrometer while taking size, cost, signal-to-noise ratio, sensitivity, and much more into account. This guide will help you select the right type of spectrometer based on your specific requirements to things like wavelength, resolution, size, cost etc. For Raman you can use our RamanShift calculator to convert back and forth between nm and cm^{-1} . The core function is to separate polychromatic light into its constituent wavelengths —. Multichannel spectroscopy involves the detection of optical signals using an array of detectors to capture the entire desired spectrum at once or after a few scans of the grating. When the grating is fixed, such a system is called a spectrograph. It offers portable design, ideal.



Article Content

Spectrometers & Spectroscopy Equipment | Edmund Optics

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

Laser wavelength selection in Raman spectroscopy†

Research in Raman spectroscopy continues to abound in a diverse range of application spaces and concurrently,

5 Considerations When Selecting Your Next Research Mass Spec

In addition, state-of-the-art TOF mass spectrometers utilize ion mobility spectrometry to further improve selectivity prior

Integrated Optical Spectrometers on Silicon Photonics Platforms

These problems are addressed by integrated optical spectrometers. Silicon photonics offers a potentially low-cost

Evaluation of drift gas selection in complex sample analyses using a ...

A recently developed uniform-field high resolution ion mobility (IM) quadrupole time of flight (Q-TOF) mass

High-Performance & Speed Spectrometers | Spectrecology

At Spectrecology, we offer some of the highest-performing spectrometers in their respective classes. These devices provide much

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

Mass Spectrometers Selection Guide: Types, Features, Applications ...

Mass spectrometers are used in both quantitative and qualitative analysis, including high-resolution accurate mass measurements

Criteria When Choosing a Spectrometer | Spectrecology

High-performance spectrometers: Enhanced optical resolution is one of the main advantages of high-performance

High-Performance & Speed Spectrometers | Spectrecology

High-performance spectrometers also offer amplified charge-coupled device (CCD) and complementary metal-oxide-semiconductor

Spectrometers Monochromators and Spectrographs

Spectrometers, Spectrographs and Monochromators HORIBA offers the market's highest quality spectrometers, monochromators

Spectrometers – Buyer's Guide & Supplier List | RP

They offer both high resolution and wide range simultaneously but are optically complex. Buyer-relevant

Spectrometers Monochromators and Spectrographs

With HORIBA's complete selection of spectrometers, spectrographs, and monochromators you will find the monochromator or

Guide to choosing spectrometers: Parameters and tips

Focused 100% on OEM business, Ibsen Photonics is the preferred partner for leading industrial companies in volume supply of high

High Resolution Mass Spectrometer Selection Guide

When selecting a high resolution Mass Spectrometer, several specifications consistently shape real performance. These include

Spectrometer Selector

Explore Ocean Optics' Spectrometer Selector to find the perfect spectrometer for your needs. Compare features, specifications, and

Selecting an MS Analytical Method

Guidelines on how to choose which technique to use to obtain a mass spectrum of your sample There is no single universal mass

Criteria When Choosing a Spectrometer | Spectrecology

With spectrometers available for any application, it's vital to select one that meets your goals. Learn the criteria for

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

How to Choose the Right Spectrometer for Your Application

Measurement Techniques: Choosing the Right Method Spectrometers come equipped with various measurement

Spectrometer resources

Focused 100% on OEM business, Ibsen Photonics is the preferred partner for leading industrial companies in volume supply of high

Spectrometer resources

Get expert insights on spectrometer selection and design with Ibsen's guides, white papers, and technical notes.

Spectrometers Monochromators and Spectrographs

Explore our range of high-quality spectrometers, spectrographs and monochromators designed for various applications. Custom

Spectrometer

Optical emission spectrometers Optical emission spectrometers (often called "OES or spark discharge spectrometers"), are used to

How to Choose the Right Spectrometer for Your Application

Learn how to choose the right spectrometer for your analysis needs. Discover important features like sensitivity,

Miniature integrated spectrometers towards high-performance and

The spectral detection performance of miniaturized spectrometers constructed using the former strategy is

Key Considerations for Choosing a High-Sensitivity Spectrometer

When selecting a high-sensitivity spectrometer for your research, several factors play a crucial role in ensuring

Amayasx7

Thunder Optics utilizes advanced CCD and CMOS (1D and 2D) detector technologies in the manufacturing of its spectrometers. For

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