

Parameters of Singapore Online Spectrometer



Article Overview

Spectrometers in Singapore offer a range of specifications including wavelength coverage from UV to visible, high resolution down to 1 nm, narrow bandwidths, and portable or laboratory-grade designs.

Key Specifications

Wavelength Range and Resolution Many spectrometers available in Singapore, such as the iris portable spectrophotometer, cover the full visible spectrum and can achieve high resolution of 1 nm, allowing precise detection of narrow absorbance peaks . FTIR spectrometers, like the PerkinElmer Spectrum Two, are designed for infrared measurements and provide detailed spectral analysis of materials .

Bandwidth and Sensitivity A narrow bandwidth, typically around 5 nm, is essential for accurate measurement of sharp spectral features. High-resolution instruments improve sensitivity by aligning measurements closely with the sample's absorption maxima .

Portability and Form Factor Some modern spectrometers, such as those from Attonics Systems, are ultra-portable and designed for real-time, on-the-fly measurements, making them suitable for field applications and gas sensing . Portable models often combine compact size with robust performance, enabling laboratory-level accuracy outside traditional lab settings.

Light Source and Optical System Spectrometers use broadband light sources to cover a wide range of wavelengths. The optical system is critical for minimizing stray light, ensuring linearity, and maintaining accuracy over time . High-quality optical components extend instrument lifespan and improve measurement reliability.

Applications and Usability Available s...

Article Content

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As a spin-off from the National University of Singapore, ATTONICS SYSTEMS has turned years of intensive research in building the

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Spectrometers – Visual Encyclopedia of Chemical Engineering

Spectrometers use light wavelengths to investigate the chemical composition of a sample. Atomic spectrometers use an analytical

HITRANOnline

Some of the self-broadening parameters in the speed-dependent Voigt parameterization for the A-band of O₂ were switched around

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NIR Spectrometers Market in Singapore | Report

Singapore NIR Spectrometers Market 2026 Analysis and Forecast to 2035 Executive Summary Key Findings The

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