

Full Component Spectrometer



Overview

The full spectrum direct reading spectrometer is an analytical instrument used for qualitative and quantitative analysis of the elemental components of materials. This spectrometer is specifically designed to measure the entire emission spectrum produced by the atoms or ions of. Our technologies include Optical Emission Spectroscopy (Arc/Spark OES), Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES), Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and X-ray Fluorescence (XRF) spectrometry, used for precise elemental analysis in industry, research and. Our digital spectrometers are compact in design, run measurements quickly, and are built for an intuitive operation to optimize and simplify your spectrophotometric workflows in the chemical industry. Optical spectroscopy is a technique that analyzes how light interacts with matter to reveal the spectral characteristics of a sample. The i-Raman NxG continues Metrohms tradition of quality, offering advanced features.

Article Content

Mar 09, 2026

Gas chromatography-mass spectrometry

GC-MS schematic These two components, used together, allow a much finer degree of substance identification than either unit used separately. It is not possible to

Oct 15, 2025

Mass Spectrometry

Mass spectrometry therefore not only provides a specific molecular mass value, but it may also establish the molecular formula of an unknown compound. Tables of precise mass values for any molecule or

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FT-IR Spectrometers | Bruker

We supply rugged high-performance routine FT-IR spectrometers for any application. Whether compact benchtop systems or dedicated research equipment. We got

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RF Spectrum Analyzers & Signal Analyzers

Reliable Spectrum and Signal Analysis Solutions Tektronix Real-time Spectrum Analyzers (RSAs) and SignalVu analysis software enable accurate and reliable

Apr 13, 2026

Integrated reconstructive spectrometer with programmable photonic ...

Here, authors present a novel integrated spectrometer with programmable photonic circuits, achieving record-high resolution and bandwidth via only a few filtering components.

Oct 06, 2025

Spectrometers & Spectroscopy Equipment | Edmund

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

Jul 24, 2025

Integrated Spectroscopy Systems | Coherent

Use Coherent Integrated Spectroscopy Systems for faster, easier material identification with greater confidence and get up to 10X higher Raman signals.

Mar 15, 2026

Gas chromatography mass spectrometry basic

What is Gas Chromatography/ Mass Spectrometry? Gas chromatography/mass spectrometry (GC/MS) combines two analytical tools to identify and measure the

Jul 07, 2025

Principal component analysis of normalized full spectrum mass ...

Abstract Rationale: Explorative statistical analysis of mass spectrometry data is still a time-consuming step. We analyzed critical factors for application of principal component analysis

Apr 04, 2026

Principal component analysis of normalized full spectrum mass ...

We analyzed critical factors for application of principal component analysis (PCA) in mass spectrometry and focused on two whole spectrum based normalization techniques and their application in the

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Full-spectrum spectrometer

Find your full-spectrum spectrometer easily amongst the 19 products from the leading brands (LECO, Shimadzu, Metrohm, ...) on DirectIndustry, the industry specialist for your professional purchases.

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Spectrometers

Spectrometers are devices for separating spectral components and measuring them. They can use diffraction gratings or prisms, interference effects or other methods.

May 09, 2026

Miniature integrated spectrometers towards high-performance and

Traditional spectrometers often rely on mechanical and optical components for spectral separation and detection.

Oct 22, 2025

Full Spectrum Direct Reading Spectrometer

The full spectrum direct reading spectrometer is an analytical instrument used for qualitative and quantitative analysis of the elemental components of materials.

Jun 08, 2026

What is Spectral Flow Cytometry

While conventional flow cytometry uses fixed filters to detect specific wavelengths, spectral flow cytometry captures the full emission spectrum into a “spectral fingerprint,” and uses advanced

Aug 31, 2025

How an FTIR Spectrometer Operates

The Components of FTIR Spectrometers A common FTIR spectrometer consists of a source, interferometer, sample compartment, detector,

Dec 20, 2025

Gas phase multicomponent detection and analysis combining

In absorption spectroscopy, analysis of multicomponent gas mixtures becomes challenging when absorption features overlap (blended spectra). Here we propose a gas sensor

Dec 01, 2025

Basics of LC/MS

Learn about the basics of liquid chromatography mass spectrometry. With a focus on the fundamentals of LC/MS, this primer explains the basic principle of operation,

Jun 05, 2026

How do mass spectrometers work?

An easy-to-understand explanation of how a mass spectrometer works, helping us separate the components of a substance into ions we can identify.

Jun 28, 2025

Ultra-high-performance liquid chromatography high-resolution mass ...

This Review surveys ultra-high-performance liquid chromatography high-resolution mass spectrometry (UHPLC-HRMS), a highly sensitive, high-throughput technique that is used for

Dec 18, 2025

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

Apr 25, 2026

Advanced FTIR Spectroscopy

Today, research-grade iS50R FTIR spectrometers are fully equipped with internal DSP demodulators, and thus experiments requiring lock-in amplifiers have been greatly simplified.

Feb 07, 2026

FluoTime 250 | Compact and Modular Lifetime Spectrometer

Discover FluoTime 250, a compact modular lifetime spectrometer delivering high sensitivity for fluorescence and photoluminescence in time-resolved research.

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Spectrometers for Chemical Analysis

Our digital spectrometers are compact in design, run measurements quickly, and are built for an intuitive operation to optimize and simplify your spectrophotometric workflows in the chemical industry.

May 16, 2026

Module 1: Fundamentals of Spectroscopy

Module 1: FUNDAMENTALS OF SPECTROSCOPY It's amazing how much we can learn about molecules and materials by shining light on them! In spectroscopy, we use light to determine a

Aug 10, 2025

Infrared spectroscopy

Infrared spectroscopy (IR spectroscopy or vibrational spectroscopy) is the measurement of the interaction of infrared radiation with matter by absorption,

Nov 13, 2025

ID7000 Spectral Cell Analyzer

Delivering high resolution, data standardization and adaptable workflows for basic to advanced cellular applications. The ID7000™ Spectral Cell Analyzer delivers precision and flexibility for a wide range of

Contact Us

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