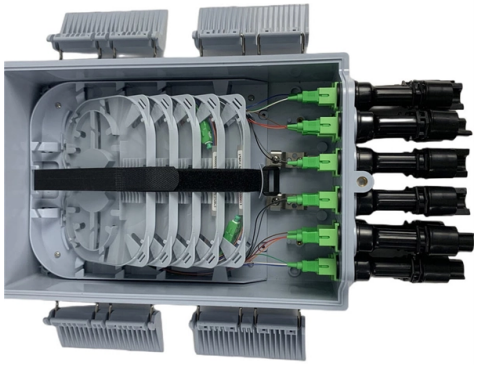
Agilent Spectrometer



Overview

Molecular Spectroscopy The Agilent molecular spectroscopy system portfolio includes fluorescence, UV-Vis, UV-Vis-NIR, and Raman, as well as Infrared system.

Key Takeaways

Agilent offers a broad range of high-performance spectrometers, including FTIR, UV-Vis, Raman, and atomic absorption systems, designed for both laboratory and field applications. Overview of Agilent Spectrometer PortfolioAgilent's molecular spectroscopy instruments cover fluorescence, UV-Vis, UV-Vis-NIR, Raman, FTIR, and LDIR chemical imaging technologies, providing solutions for diverse analytical challenges. Their systems range from handheld and portable devices like the 4300 Handheld FTIR to high-performance benchtop instruments such as the Cary 630 FTIR, enabling both routine analysis and advanced research.

Key Models and Features

Cary 630 FTIR SpectrometerDesign: Ultra-compact, benchtop, and modular for flexible sampling of solids, liquids, powders, and gases. Performance: Permanently aligned optics and high sensitivity provide rapid, accurate quantitative and qualitative results. Software: MicroLAB software offers intuitive workflows, multi-language support, and color-coded prompts for easy operation.

Applications: Widely used in pharmaceuticals, cosmetics, environmental testing, and research laboratories. Atomic Absorption (AA) SpectrometersModels like the 240FS AA, 280FS AA, 280Z AA, and AA Duo provide fast sequential operation, multi-element analysis, and high sensitivity.

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The A

A Duo allows simultaneous operation of flame and graphite furnace atomizers, enhancing throughput and efficiency.

Portable and Field Instruments

The 4300 Handheld FTIR delivers lab-grade performance in non-laboratory environments, enabling non-destructive testing and on-site analysis.

Applications

Agilent spectrometers are used for: Chemical composition analysis in solids, liquids, and gasesQuality control in pharmaceuticals, food, and cosmeticsEnvironmental monitoring and field testingResearch and development in materials science and biotechnologyPurchasing OptionsAgilent spectrometers are available through official distributors, online marketplaces like eBay, and specialized laboratory suppliers, offering both new and pre-owned instruments. Agilent's combination of modular design, high sensitivity, and user-friendly software makes their spectrometers suitable for a wide range of scientific and industrial applications, from routine analysis to cutting-edge research.

Article Content

Molecular Spectroscopy

The Agilent molecular spectroscopy system portfolio includes fluorescence, UV-Vis, UV-Vis-NIR, and Raman, as well as Infrared systems such as FTIR, and LDIR chemical imaging.

FTIR Spectroscopy Equipment | Agilent

Agilent offers a comprehensive range of FTIR spectrometers, including flexible handheld FTIR systems and robust portable analyzers for field use, and reliable benchtop FTIR instruments for routine testing

Agilent Spectrometers

The Agilent 4500 portable FTIR spectrometer is a rugged analyzer perfect for on-the-spot analysis in a range of non-laboratory settings, including forensics, chemical identification, and the chemical, food,

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Agilent Technologies, Inc. is an American global company headquartered in Santa Clara, California, that provides instruments, software, services, and consumables

Agilent 4300 Handheld FTIR Spectrometer

Explore the Agilent 4300 Handheld FTIR – a portable, cutting-edge spectrometer designed for rapid, non-destructive on-site analysis. Unleash the power of real

Atomic Spectroscopy

Atomic Spectroscopy: The Value of Knowing Knowing the right information at the right time can help you cut through the everyday complexities of your samples, instrument needs, regulations, other

UV-Vis & UV-Vis-NIR Spectroscopy, Cary Instruments | Agilent

Cary UV-Vis and UV-Vis-NIR spectrophotometers deliver precision, flexibility, and compliance in pharma/biopharma, materials testing, life science research, and routine quality control.

Fluorescence Spectrometer, Fluorometer, Cary Eclipse

The Agilent Cary Eclipse fluorescence spectrometer is sensitive, accurate, and flexible. Ideal for use as a routine fluorometer, the Cary Eclipse can easily be

4500 Portable FTIR Spectrometer, Rugged Non-Lab

The Agilent 4500 portable FTIR spectrometer is a rugged analyzer perfect for on-the-spot analysis in a range of non-laboratory settings, including forensics,

Cary 7000 Universal Measurement Spectrophotometer

The Agilent Cary 7000 universal measurement spectrophotometer (UMS) will satisfy all your solid sampling needs. Collect hundreds of UV-Vis-NIR spectra overnight

Agilent Spectroscopy Supplies: Your Essential Resource for Spectroscopy

Driven by insights from customers around the world, Agilent has created an innovative spectroscopy portfolio – spanning instruments, supplies, standards, services, software, and more – to bring

Fluorescence Spectroscopy Instrumentation, Spectrofluorometers

For the highest levels of performance in fluorescence spectrophotometry and fluorescence spectroscopy instrumentation, look no further than the Agilent Cary Eclipse spectrofluorometer. The Cary Eclipse

Handheld FTIR, Mobile Nondestructive Testing | Agilent

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A handheld FTIR spectrometer for mobile non-destructive testing in the field and non-laboratory environments. Analyze FTIR reflectance of polymers, coatings,

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Our gas chromatography/mass spectrometry (GC/MS) systems are based on 40 years of mass spectrometry experience helping labs to meet any GC/MS analysis challenge with confidence.

Single quadrupole GC/MS instrument, 5977C GC/MSD

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LC/MS Instruments, HPLC MS, LC/MS Systems, LC/MS Analysis

The Agilent portfolio of LC/MS instruments feature a wide range of HPLC MS configurations, including single quadrupole (SQ) LC/MSD, triple quadrupole (TQ), and time-of-flight (TOF/Q-TOF) systems.

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