

Global AFM-Raman Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G8A51C7190EFEN.html>

Date: June 2026

Pages: 90

Price: US\$ 3,480.00 (Single User License)

ID: G8A51C7190EFEN

Abstracts

According to our (Global Info Research) latest study, the global AFM-Raman market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

AFM-Raman combines the capabilities of atomic force microscopy (AFM) and Raman spectroscopy. It is a powerful analytical technique that allows for the simultaneous imaging and chemical characterization of a sample at the nanoscale level.

AFM is a high-resolution imaging technique that uses a sharp probe to scan the surface of a sample, providing information about its topography and mechanical properties. On the other hand, Raman spectroscopy is a non-destructive technique that measures the vibrational frequencies of molecules, providing information about their chemical composition and molecular structure. In AFM-Raman, an AFM probe scans the surface of the sample while Raman spectroscopy is performed at each point. This allows for the acquisition of both topographical and chemical information simultaneously. By correlating the obtained Raman spectra with the corresponding positions on the sample surface, chemical mapping of the sample can be achieved. AFM-Raman offers several advantages. It allows for the investigation of the sample's physical, mechanical, and chemical properties with high spatial resolution, down to the nanoscale level. It is a non-destructive technique, which means that the sample remains intact after the measurement. Additionally, AFM-Raman can be performed in various sample environments, including ambient, vacuum, and liquid conditions.

The Global Info Research report includes an overview of the development of the AFM-Raman industry chain, the market status of Physical (Spectral Resolution $>0.5\text{cm}^{-1}$, Spectral Resolution $>1\text{cm}^{-1}$), Chemical (Spectral Resolution $>0.5\text{cm}^{-1}$, Spectral

Resolution $\geq 1\text{cm}^{-1}$), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of AFM-Raman.

Regionally, the report analyzes the AFM-Raman markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global AFM-Raman market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the AFM-Raman market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the AFM-Raman industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Spectral Resolution $\geq 0.5\text{cm}^{-1}$, Spectral Resolution $\geq 1\text{cm}^{-1}$).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the AFM-Raman market.

Regional Analysis: The report involves examining the AFM-Raman market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the AFM-Raman market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to AFM-Raman:

Company Analysis: Report covers individual AFM-Raman manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards AFM-Raman. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Physical, Chemical).

Technology Analysis: Report covers specific technologies relevant to AFM-Raman. It assesses the current state, advancements, and potential future developments in AFM-Raman areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the AFM-Raman market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

AFM-Raman market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Spectral Resolution $\geq 0.5\text{cm}^{-1}$

Spectral Resolution $\geq 1\text{cm}^{-1}$

Market segment by Application

Physical

Chemical

Major players covered

Horiba

Nanonics Imaging

Bruker

Renishaw

WITec

Agilent Technologies

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AFM-Raman product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AFM-Raman, with price, sales, revenue and global market share of AFM-Raman from 2019 to 2024.

Chapter 3, the AFM-Raman competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AFM-Raman breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and AFM-Raman market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AFM-Raman.

Chapter 14 and 15, to describe AFM-Raman sales channel, distributors, customers, research findings and conclusion.

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