

Global FTIR/Raman Spectroscopy Systems Market Growth 2026-2032

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Abstracts

The global FTIR/Raman Spectroscopy Systems market size is predicted to grow from US\$ 3413 million in 2025 to US\$ 6841 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 2032.

FTIR and Raman spectroscopy systems are analytical instruments used to identify chemical compositions, molecular structures and material properties across pharmaceuticals, polymers, chemicals, semiconductors, food safety and scientific research. In 2024, the global average price—covering portable, benchtop and research-grade FTIR and Raman instruments—is approximately US\$22,000 per unit, with shipments of about 145,000 units. Gross margins typically range from 45%–60%, driven by high-precision optics, detectors, lasers, interferometers and proprietary data-processing algorithms. The supply chain includes upstream IR sources, lasers, CCD/CMOS detectors, interferometers and optical components; midstream vendors provide system integration, calibration and spectral software; downstream users span pharmaceuticals, materials R&D, semiconductor labs, chemical processing plants and environmental monitoring.

The FTIR and Raman spectroscopy market is expanding as industries prioritize rapid, non-destructive chemical analysis. Adoption is accelerating in battery materials, semiconductor surface characterization, pharmaceutical QA/QC and environmental monitoring. Advances in miniaturization, handheld Raman, and AI-based spectral interpretation are broadening usage from research laboratories to inline industrial analysis, supporting steady market growth through 2031.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “FTIR/Raman Spectroscopy Systems Industry Forecast” looks at past sales and reviews total world FTIR/Raman Spectroscopy Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected FTIR/Raman Spectroscopy Systems sales for 2026 through 2032. With FTIR/Raman Spectroscopy Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world FTIR/Raman Spectroscopy Systems industry.

This Insight Report provides a comprehensive analysis of the global FTIR/Raman Spectroscopy Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on FTIR/Raman Spectroscopy Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global FTIR/Raman Spectroscopy Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for FTIR/Raman Spectroscopy Systems and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global FTIR/Raman Spectroscopy Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of FTIR/Raman Spectroscopy Systems market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Benchtop Systems

Portable/Handheld Units

Segmentation by Target Material:

Polymers & Plastics

Pharmaceuticals & Biomolecules

Semiconductors & Thin Films

Chemicals & Petrochemicals

Minerals & Inorganics

Segmentation by Technology Type:

FTIR Spectroscopy

Raman Spectroscopy

Others

Segmentation by Application:

Pharmaceuticals

Chemicals

Semiconductors

Food and Beverages

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Thermo Fisher Scientific

Bruker Optics

Agilent Technologies

Horiba Scientific

Renishaw Raman Systems

PerkinElmer (Revvity)

Shimadzu Scientific Instruments

Metrohm Raman

Ocean Insight (Modular Raman/FTIR)

B&W Tek (Spectroscopy Systems)

Key Questions Addressed in this Report

What is the 10-year outlook for the global FTIR/Raman Spectroscopy Systems market?

What factors are driving FTIR/Raman Spectroscopy Systems market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do FTIR/Raman Spectroscopy Systems market opportunities vary by end market size?

How does FTIR/Raman Spectroscopy Systems break out by Type, by Application?

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