

# Global Infrared Spectroscopy for Pharmaceutical Market Growth 2026-2032

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## Abstracts

The global Infrared Spectroscopy for Pharmaceutical market size is predicted to grow from US\$ 509 million in 2025 to US\$ 805 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

Infrared spectroscopy for pharmaceutical refers to IR spectrometers (most commonly mid-IR FTIR and near-IR/NIR instruments) used to obtain molecular “vibrational fingerprints” of drug substances, excipients, intermediates, and drug products for identification and certain quantitative/quality attributes.

The upstream supply chain includes optical and electronic subsystems (IR/NIR sources, interferometer/monochromator, detectors), sampling interfaces (e.g., transmission cells, diffuse reflectance accessories, ATR crystals), and software/algorithms (especially chemometrics for NIR models and libraries).

Downstream users include pharmaceutical manufacturers, CDMOs, QC/QA laboratories, and official control labs, where IR is deployed across off-line, at-line, on-line, and in-line modes depending on whether testing is performed in the lab, near the line, or directly connected to the process. Regulatory guidance specifically frames NIR procedures for evaluating attributes such as identity, strength, quality, purity, and potency, and describes how measurement mode and interfaces are documented in filings/controls.

In 2025, global sales of infrared spectroscopy for pharmaceutical reached approximately 7,649 units, with an average global market price of around US\$ 68 K/unit. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 40% to 60%.

Pharmaceutical demand for infrared spectroscopy (FTIR/NIR) is moving from “laboratory confirmation” toward “manufacturing process control.” Under GMP operations, infrared methods are valued for speed, non-destructive testing, and minimal sample preparation, making them well suited for incoming material identification, formulation or solid-state consistency checks, and rapid release of key quality attributes such as assay-related metrics and moisture—helping shorten wait times while maintaining compliance.

As PAT and quality-by-design thinking become more widely embedded in regulatory practice, manufacturers increasingly combine NIR/FTIR with in-line sampling, probes, and chemometric models to continuously monitor unit operations such as blending, granulation, drying, and coating—shifting from “after-the-fact testing” to “real-time monitoring plus feedback control.” This elevates the importance of compliant software, model lifecycle governance, model transfer across instruments, and validation services in purchasing decisions.

On the supply side, differentiation is no longer only about hardware specifications, but about an integrated “instrument + model + compliant delivery” capability: robust optical platforms, traceable calibration and reference frameworks, strong spectral libraries and chemometric toolchains, and service/documentation packages that support validation, controlled change, and data integrity expectations. For new entrants, practical entry points often lie in application-specific probes or accessories, compliant software and systems integration, and localized validation and maintenance capacity.

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

This Insight Report provides a comprehensive analysis of the global Infrared Spectroscopy for Pharmaceutical 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 Infrared Spectroscopy for Pharmaceutical portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these

firms' unique position in an accelerating global Infrared Spectroscopy for Pharmaceutical market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Spectroscopy for Pharmaceutical 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 Infrared Spectroscopy for Pharmaceutical.

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Spectroscopy for Pharmaceutical market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

FTIR Spectrometer

Dispersive IR Spectrometer

Other

### **Segmentation by Spectral Region:**

Near-Infrared (NIR)

Mid-Infrared (MIR)

Far-Infrared (FIR)

### **Segmentation by Deployment Mode:**

Process Type

Benchtop Type

Handheld Type

**Segmentation by Application:**

Chemical Pharmaceuticals pharmaceutical

Biopharmaceuticals

Other

**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

Shimadzu

Bruker

Revvity

Agilent Technologies

ABB

JASCO

FOSS

Metrohm

Process Insights

HORIBA

Avantes

Zeiss Spectroscopy

Focused Photonics

Shanghai Lengguang Technology

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Infrared Spectroscopy for Pharmaceutical market?

What factors are driving Infrared Spectroscopy for Pharmaceutical market growth, globally and by region?

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

How do Infrared Spectroscopy for Pharmaceutical market opportunities vary by end market size?

How does Infrared Spectroscopy for Pharmaceutical break out by Type, by Application?

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