

Global Infrared Spectroscopy for Semiconductor Market Growth 2026-2032

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Abstracts

The global Infrared Spectroscopy for Semiconductor market size is predicted to grow from US\$ 77.20 million in 2025 to US\$ 119 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

Infrared Spectroscopy for Semiconductor refers to infrared (IR) spectroscopic measurement systems that are configured for semiconductor materials and manufacturing needs—i.e., to obtain IR absorption “fingerprints” and quantitative concentrations of specific bonds/impurities in wafers and films, and to support process/control decisions.

The upstream chain combines (1) core opto-electronics and precision mechanics (IR source or laser, interferometer/monochromator, IR optics and beam splitters/windows, detectors such as DTGS/MCT/InSb, purge/vacuum modules, and vibration/thermal stability design), (2) wafer-ready automation (wafer stages/handlers, mapping recipes, cleanroom-compatible enclosures), and (3) metrology software + traceability (spectral libraries, baseline/peak fitting algorithms, and calibration using certified or traceable reference wafers/materials such as NIST SRMs referenced by the standards).

Downstream users include silicon/wafer suppliers, epi/thin-film process lines, and fabs/labs for incoming QC, process development, and failure analysis. FTIR-based semiconductor tools are widely used to measure wafer impurity content (O/C) and can also support epitaxial coating thickness and other wafer metrics with semiconductor-oriented sampling/handling designs.

In 2025, global sales of Infrared Spectroscopy for Semiconductor reached approximately 1,052 units, with an average global market price of around US\$ 75 K/unit.

Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 40% to 60%.

Semiconductor manufacturing keeps tightening tolerance for impurities and organic contamination, and changes in incoming materials or process conditions can introduce complex residues from photoresists, packaging polymers, and cleaning chemistries. Infrared spectroscopy provides a “molecular fingerprint,” enabling fast identification of functional groups and bonding information without destroying the sample. As a result, it is widely used in wafer incoming inspection and materials labs for quantitative control of key impurities such as oxygen and carbon, and for monitoring hydrogen-related absorption in films such as silicon nitride. For metrics like interstitial oxygen in silicon, mature infrared-absorption standards and quality-control workflows have been established, making IR a stable, repeatable requirement across wafer fabs, wafer suppliers, and materials laboratories.

As process materials extend beyond silicon into a broader set of dielectric films, advanced-packaging organics, and emerging power-device substrates, demand is shifting from single-point measurements toward automated mapping and imaging, and IR is increasingly embedded in failure-analysis and fast root-cause workflows. Buyers prioritize cleanroom compatibility, automated handling, algorithms and data traceability, and efficient correlation with electrical tests, microscopy, and other spectroscopies. Because downtime is costly, calibration, maintenance, and spare-parts responsiveness also carry significant weight in purchasing decisions. Suppliers with robust optical platforms, detector and microscopy/imaging capability, and strong long-term service around standardized methods tend to build stickiness with leading fabs, materials vendors, and third-party failure-analysis labs.

LP Information, Inc. (LPI) ' newest research report, the “Infrared Spectroscopy for Semiconductor Industry Forecast” looks at past sales and reviews total world Infrared Spectroscopy for Semiconductor sales in 2025, providing a comprehensive analysis by region and market sector of projected Infrared Spectroscopy for Semiconductor sales for 2026 through 2032. With Infrared Spectroscopy for Semiconductor 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 Semiconductor industry.

This Insight Report provides a comprehensive analysis of the global Infrared Spectroscopy for Semiconductor 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 Semiconductor 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 Semiconductor market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Spectroscopy for Semiconductor 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:

Benchtop Type

Process Type

Other

Segmentation by Application:

Integrated Circuits

Discrete Devices

Sensors

Optoelectronic Devices

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.

Bruker

Thermo Fisher

Shimadzu

ABB

CI Semi

Onto Innovation

Semilab

Process Insights

Avantes

Si-WareSi-Ware Systems

Park Systems

HORIBA

Tianjin Gangdong

Key Questions Addressed in this Report

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

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

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

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

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

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