

Global Laser Induced Breakdown Spectrometer (LIBS) Market Growth 2025-2031

<https://marketpublishers.com/r/G536524AE667EN.html>

Date: September 2025

Pages: 119

Price: US\$ 3,660.00 (Single User License)

ID: G536524AE667EN

Abstracts

The global Laser Induced Breakdown Spectrometer (LIBS) market size is predicted to grow from US\$ 104 million in 2025 to US\$ 148 million in 2031; it is expected to grow at a CAGR of 6.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Laser induced breakdown spectrometer is a new analytical method in the field of spectral analysis. Its basic principle is to use a high-energy laser light source to form a high-intensity laser spot (plasma) on the surface of the analytical material, so that the sample can be excited to emit light. These light is then analyzed through the spectral system and detection system. This technique is very sensitive to most inorganic elements in the material. It can also analyze elements with low atomic numbers.

Market competition

Laser induced breakdown spectrometer is an analytical instrument with broad application prospects. Global LIBS companies are mainly distributed in the United States, Europe, Japan and other places. The leading core companies mainly include SciAps, Avantes, Rigaku, Hitachi High-Tech Analytical Science, LTB Lasertechnik Berlin GmbH, Ocean Insight and B&W Tek. Among them, the top 5 companies have a market share of nearly 30%, and the market is relatively fragmented.

Development trend

The rise of new spectral enhancement technologies such as discharge-assisted laser induced breakdown spectroscopy (D-LIBS) has brought revolutionary progress to LIBS and significantly improved its detection sensitivity and accuracy. These technologies not only achieve significant enhancement of spectral intensity by finely controlling the plasma excitation process and optimizing spectral acquisition methods, but also greatly improve the signal-to-noise ratio, thereby ensuring the reliability of the analysis results. At the same time, with the rapid development of laser technology and spectrometer miniaturization technology, lightweight handheld LIBS analyzers have emerged. This type of equipment not only maintains the original high precision and high sensitivity of LIBS technology, but also brings this sophisticated analysis tool into the production site, realizing fast and convenient on-site detection and analysis. The widespread use of this portable LIBS analyzer has undoubtedly brought great convenience to industrial production, environmental monitoring, geological exploration and other fields. Although LIBS technology has many significant advantages, such as high sensitivity, high accuracy and fast analysis speed, it still faces some challenges in practical application. Among them, the stability and repeatability of laser pulse energy are one of the key factors affecting the performance of LIBS technology. In addition, the universality of quantitative analysis methods is also one of the problems that need to be solved in the current LIBS technology.

LP Information, Inc. (LPI) ' newest research report, the "Laser Induced Breakdown Spectrometer (LIBS) Industry Forecast" looks at past sales and reviews total world Laser Induced Breakdown Spectrometer (LIBS) sales in 2024, providing a comprehensive analysis by region and market sector of projected Laser Induced Breakdown Spectrometer (LIBS) sales for 2025 through 2031. With Laser Induced Breakdown Spectrometer (LIBS) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Laser Induced Breakdown Spectrometer (LIBS) industry.

This Insight Report provides a comprehensive analysis of the global Laser Induced Breakdown Spectrometer (LIBS) 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 Laser Induced Breakdown Spectrometer (LIBS) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Laser Induced Breakdown Spectrometer (LIBS) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Laser Induced Breakdown Spectrometer (LIBS) 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 Laser Induced Breakdown Spectrometer (LIBS).

This report presents a comprehensive overview, market shares, and growth opportunities of Laser Induced Breakdown Spectrometer (LIBS) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Handheld

Benchtop

Segmentation by Application:

Pharmaceutical Industry

Coal

Scientific Research

Geological Examination

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.

SciAps

Avantes

Rigaku

Hitachi High-Tech Analytical Science

LTB Lasertechnik Berlin GmbH

Ocean Insight

B&W Tek

Thermo Fisher Scientific Inc.

Horiba

Bruker Corporation

Velainstruments

Hefei GOLDSTAR Electromechanical Technology Development

SECOPTA analytics GmbH

Expec Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Laser Induced Breakdown Spectrometer (LIBS) market?

What factors are driving Laser Induced Breakdown Spectrometer (LIBS) market growth, globally and by region?

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

How do Laser Induced Breakdown Spectrometer (LIBS) market opportunities vary by end market size?

How does Laser Induced Breakdown Spectrometer (LIBS) break out by Type, by Application?

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