

# **Laser-Induced Breakdown Spectroscopy Market Size, Trends, Analysis, and Outlook By Product (Handheld, Desktop), By End-user (Academic and Research Institutes, Pharmaceuticals and Biotechnology Companies, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Laser-Induced Breakdown Spectroscopy market size is poised to register 6.7% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Laser-Induced Breakdown Spectroscopy market across By Product (Handheld, Desktop), By End-user (Academic and Research Institutes, Pharmaceuticals and Biotechnology Companies, Others).

The Laser-Induced Breakdown Spectroscopy (LIBS) market is witnessing steady growth attributed to the increasing demand for rapid and non-destructive elemental analysis solutions across various industries, including materials science, environmental monitoring, and pharmaceuticals. LIBS technology utilizes laser pulses to generate a plasma plume on the surface of a sample, enabling the analysis of elemental composition based on the emitted light spectrum. Factors such as the growing need for precise and reliable analytical techniques for quality control, process optimization, and environmental monitoring applications are driving market expansion. Additionally, advancements in laser technology, spectrometer design, and data analysis algorithms, along with the development of portable and handheld LIBS instruments for field applications, are fueling innovation in the market. Moreover, the expanding range of applications for LIBS analysis, including metal alloy identification, mineral exploration, forensic analysis, and cultural heritage preservation, are driving market growth.

Furthermore, efforts to enhance the sensitivity, detection limits, and spectral resolution of LIBS systems, improve data processing speed and automation capabilities, and reduce instrument costs and complexity are expected to further propel market growth in the coming years.

## Laser-Induced Breakdown Spectroscopy Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Laser-Induced Breakdown Spectroscopy market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Laser-Induced Breakdown Spectroscopy survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Laser-Induced Breakdown Spectroscopy industry.

## Key market trends defining the global Laser-Induced Breakdown Spectroscopy demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Laser-Induced Breakdown Spectroscopy Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Laser-Induced Breakdown Spectroscopy industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Laser-Induced Breakdown Spectroscopy companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Laser-Induced Breakdown Spectroscopy industry

Leading Laser-Induced Breakdown Spectroscopy companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Laser-Induced Breakdown Spectroscopy companies.

### Laser-Induced Breakdown Spectroscopy Market Study- Strategic Analysis Review

The Laser-Induced Breakdown Spectroscopy market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### Laser-Induced Breakdown Spectroscopy Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Laser-Induced Breakdown Spectroscopy industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Laser-Induced Breakdown Spectroscopy Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

### North America Laser-Induced Breakdown Spectroscopy Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Laser-Induced Breakdown Spectroscopy market segments. Similarly, Strong end-user demand is encouraging Canadian Laser-Induced Breakdown Spectroscopy companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Laser-Induced Breakdown Spectroscopy market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Laser-Induced Breakdown Spectroscopy Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Laser-Induced Breakdown Spectroscopy industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Laser-Induced Breakdown Spectroscopy market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

### Asia Pacific Laser-Induced Breakdown Spectroscopy Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Laser-Induced Breakdown Spectroscopy in Asia Pacific. In particular, China, India, and South East Asian Laser-

Induced Breakdown Spectroscopy markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Laser-Induced Breakdown Spectroscopy Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Laser-Induced Breakdown Spectroscopy Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Laser-Induced Breakdown Spectroscopy market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Laser-Induced Breakdown Spectroscopy.

Laser-Induced Breakdown Spectroscopy Market Company Profiles

The global Laser-Induced Breakdown Spectroscopy market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Applied Spectra, Avantes, B&W Tek, Hitachi High-Tech Analytical Science, Princeton Instruments, Rigaku, Bruker Corp, SciAps Inc, SECOPTA analytics GmbH, Thermo Fisher Scientific Inc, TSI Inc

Recent Laser-Induced Breakdown Spectroscopy Market Developments

The global Laser-Induced Breakdown Spectroscopy market study presents recent

market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Laser-Induced Breakdown Spectroscopy Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Product

Handheld

Desktop

By End-User

Academic and Research Institutes

Pharmaceuticals and Biotechnology Companies

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Applied Spectra

Avantes

B&W Tek

Hitachi High-Tech Analytical Science

Princeton Instruments

Rigaku, Bruker Corp

SciAps Inc

SECOPTA analytics GmbH

Thermo Fisher Scientific Inc

TSI Inc

Formats Available: Excel, PDF, and PPT



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Handheld

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Others

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Avantes

B&W Tek

Hitachi High-Tech Analytical Science

Princeton Instruments

Rigaku, Bruker Corp  
SciAps Inc  
SECOPTA analytics GmbH  
Thermo Fisher Scientific Inc  
TSI Inc

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