

# Global Diode Laser Market Growth 2023-2029

<https://marketpublishers.com/r/GB0624CF3D8FEN.html>

Date: March 2023

Pages: 104

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

ID: GB0624CF3D8FEN

## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

Laser diodes are electrically pumped semiconductor lasers in which the gain is generated by an electrical current flowing through a p–n junction or (more frequently) a p–i–n structure. In such a heterostructure, electrons and holes can recombine, releasing the energy portions as photons. This process can be spontaneous, but can also be stimulated by incident photons, in effect leading to optical amplification, and with optical feedback in a laser resonator to laser oscillation.

The laser diode has electrons and positive holes combined to create light from the PN junction when a PN junction is made by combining an N-Type semiconductor & P-Type semiconductor while afterwards, having the currents injected as a forward current.

LPI (LP Information)' newest research report, the “Diode Laser Industry Forecast” looks at past sales and reviews total world Diode Laser sales in 2022, providing a comprehensive analysis by region and market sector of projected Diode Laser sales for 2023 through 2029. With Diode Laser sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Diode Laser industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Diode Laser 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 Diode Laser.

The global Diode Laser market size is projected to grow from US\$ 844.2 million in 2022 to US\$ 1053.6 million in 2029; it is expected to grow at a CAGR of 1053.6 from 2023 to 2029.

Global Laser Diode key players include Sony, Nichia, Sharp, Ushio, Osram, etc. Global top five manufacturers hold a share over 65%.

North America is the largest market, with a share over 25%, followed by Europe and China, have a share over 35 percent.

In terms of product, Blue Laser Diode is the largest segment, with a share about 66%. And in terms of application, the largest application is Industrial Applications, followed by Optical Storage & Display, Telecom & Communication, Medical Application, etc.

This report presents a comprehensive overview, market shares, and growth opportunities of Diode Laser market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Near infrared

Red

Blue

Green

Ultra-Violet

Violet

Yellow

Others

### Segmentation by application

Automotive

Healthcare

Consumer Electronics

Military

Industrial

Medical Equipment

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 analyzing the company's coverage, product portfolio, its market penetration.

Osram Opto Semiconductor

Coherent

Newport

Nichia

Lumentum

Sumitomo Electric Industries

TRUMPF

Jenoptik

JDSU Uniphase

Furukawa Electric

Rofin Sinar technologies

IPG Photonics

Sony

Mitsubishi Electric

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Diode Laser market?

What factors are driving Diode Laser market growth, globally and by region?

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

How do Diode Laser market opportunities vary by end market size?

How does Diode Laser break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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