

Global Laser Diode Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Laser Diode market size was valued at US\$ 995 million in 2024 and is forecast to a readjusted size of USD 1466 million by 2031 with a CAGR of 5.8% during review period.

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.

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 30%.

And in terms of application, the largest application is Industrial Applications, followed by Optical Storage & Display, Telecom & Communication, Medical Application, etc.

This report is a detailed and comprehensive analysis for global Laser Diode market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and

product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Laser Diode market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Laser Diode market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Laser Diode market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Laser Diode market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (USD/Pcs), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Laser Diode

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Laser Diode market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sony, Nichia, Sharp, Ushio, ams OSRAM, Toptica Eagleyard, Egismos Technology, Arima Lasers, Panasonic, ROHM, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Laser Diode market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Blue Laser Diode

- Red Laser Diode
- Infrared Laser Diode
- Other Laser Diode

Market segment by Application

- Optical Storage & Display
- Telecom & Communication
- Industrial Applications
- Medical Application
- Other

Major players covered

- Sony
- Nichia
- Sharp
- Ushio
- ams OSRAM
- Toptica Eagleyard
- Egismos Technology
- Arima Lasers
- Panasonic
- ROHM
- Hamamatsu
- Newport Corp
- OSI Laser Diode
- Mitsubishi Electric
- Huaguang Photoelectric
- QSI
- Bluglass Limited
- Frankfurt Laser Company
- SemiNex Corporation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East)

& Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Laser Diode product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Laser Diode, with price, sales quantity, revenue, and global market share of Laser Diode from 2020 to 2025.

Chapter 3, the Laser Diode competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Laser Diode breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Laser Diode market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Laser Diode.

Chapter 14 and 15, to describe Laser Diode sales channel, distributors, customers, research findings and conclusion.

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