

# **Global Blue Laser Diodes 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 Blue Laser Diodes market size was valued at US\$ 291 million in 2024 and is forecast to a readjusted size of USD 423 million by 2031 with a CAGR of 5.6% 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. A blue laser diode emits electromagnetic radiation with a wavelength between 405 and 483 nanometres, which the human eye sees as blue or violet.

This report includes the Blue Laser Diode wavelength (405NM~483NM) and it don't includes the data of Blue Laser Diode module or Blue Diode Laser.

The industry is concentration, the key brand include Sony, Nichia, Sharp, Osram Opto Semiconductors, USHIO, TOPTICA Photonics Inc, Egismos Technology Corporation and Ondax. These companies occupied more than 90% market share by revenue. North America is the largest consumption place, with a consumption market share nearly 25%. Following North America, Europe is the second largest consumption place with the consumption market share of 20%.

This report is a detailed and comprehensive analysis for global Blue Laser Diodes 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 Blue Laser Diodes market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Blue Laser Diodes 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 Blue Laser Diodes 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 Blue Laser Diodes 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 Blue Laser Diodes

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 Blue Laser Diodes 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, Osram Opto Semiconductors, USHIO, TOPTICA Photonics Inc., Egismos Technology Corporation, Ondax, etc.

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

## Market Segmentation

Blue Laser Diodes 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

Single-Mode Blue Laser Diode

Multi-Mode Blue Laser Diode

### Market segment by Application

Bio/Medical

Laser Projectors and Scanner

Blu-Ray Devices

Others

### Major players covered

Sony

Nichia

Sharp

Osram Opto Semiconductors

USHIO

TOPTICA Photonics Inc.

Egismos Technology Corporation

Ondax

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 Blue Laser Diodes product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Blue Laser Diodes 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 Blue Laser Diodes 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 Blue Laser Diodes.

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

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