

Global 405nm 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 405nm Laser Diodes market size was valued at US\$ 90.2 million in 2024 and is forecast to a readjusted size of USD 59.8 million by 2031 with a CAGR of -5.8% during review period.

The 405nm Laser Diodes industry can be broken down into several segments, Single-Mode 405nm Laser Diode, 405nm Blue Laser Diode, etc.

On the basis of product type, Single-Mode 405nm Laser Diode represent the largest share of the worldwide 405nm Laser Diodes market, with 84% revenue share. In the applications, Blu-Ray Devices segment is estimated to be the largest end-use industry segment of the market, with 81% revenue share of global market. Asia-Pacific holds the major share in the market, with a share of 34%. Top 5 companies, including Sony, Nichia, Sharp, USHIO and TOPTICA Photonics Inc., are the leaders of the industry and took up about 85% of the global market.

This report is a detailed and comprehensive analysis for global 405nm 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 405nm Laser Diodes market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global 405nm Laser Diodes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global 405nm Laser Diodes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global 405nm Laser Diodes market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 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 405nm Laser Diodes
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global 405nm 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, USHIO, TOPTICA Photonics Inc., Egismos Technology Corporation, etc.

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

Market Segmentation

405nm 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

USHIO

TOPTICA Photonics Inc.

Egismos Technology 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 405nm Laser Diodes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 405nm Laser Diodes, with price, sales quantity, revenue, and global market share of 405nm Laser Diodes from 2020 to 2025.

Chapter 3, the 405nm Laser Diodes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 405nm 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 405nm 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 405nm Laser Diodes.

Chapter 14 and 15, to describe 405nm Laser Diodes sales channel, distributors, customers, research findings and conclusion.

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