

North America Laser Diode Market: Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The North America laser diode market size reached US\$ 2.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 5.7 Billion by 2028, exhibiting a growth rate (CAGR) of 14.3% during 2023-2028.

A laser diode is a semiconductor device, which exhibits similar properties to that of a light-emitting diode (LED). It emits coherent light in the infrared (IR) or visible spectrum when current passes through it. The light is generated by utilizing a p-n junction with the 'Light Amplification by Stimulated Emission of Radiation', or 'LASER' procedure. A laser diode light consists of a single frequency, which makes it possible to focus this light to a very small point by using a lens system. This does not result in any chromatic aberration as all the energy from the light source is concentrated to a minute spot. Laser diodes or semiconductor lasers are more efficient, which makes them an ideal solution for numerous devices, such as barcode readers, autonomous vehicles, laser printers, fiber optic communications and security systems.

The North America laser diode market is currently being driven by several factors. A surge in R&D activities, particularly in the military and defense industries, has propelled the demand for laser diode in the region. Apart from this, increasing application of semiconductor laser diodes in the healthcare sector is one of the major market drivers. Laser diode is widely used in cosmetic procedures, body contouring, hair removal, LASIK surgery, OCT, skin resurfacing, tattoo removal, wrinkle reduction, pigmentation reduction, etc. Moreover, the increasing demand for laser diodes in the electronics, automotive and aerospace industries has also induced the market growth. Furthermore,

the presence of telecom laser firms, which employ laser diode as a major component, has also spurred the demand. Several benefits, such as compact size, high electrical efficiency, low maintenance, and short wavelength of laser diode, have also induced its demand in the material processing industry.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the North America laser diode market report, along with forecasts at the regional and country levels from 2023-2028. Our report has categorized the market based on type and application.

Key Regions Analysed

United States

Canada

Analysis for Each Country

Market by Type

Injection Laser Diode (ILD)

Optically Pumped Semiconductor Laser (OPSL)

Market by Application

Optical Storage and Communication

Industrial Applications

Medical Applications

Military and Defence Applications

Instrumentation and Sensor Applications

Others

Value Chain Analysis

Key Drivers and Challenges

Porters Five Forces Analysis

Competitive Landscape

Competitive Structure

Key Player Profiles

Key Questions Answered in This Report:

How has the North America laser diode market performed so far and how will it perform in the coming years?

- What are the key regions in the North America laser diode market?
- What has been the impact of COVID-19 on the North America laser diode market?
- What is the breakup of the North America laser diode market on the basis of type?
- What is the breakup of the North America laser diode market on the basis of application?
- What are the various stages in the value chain of the North America laser diode industry?
- What are the key driving factors and challenges in the North America laser diode industry?
- What is the structure of the North America laser diode industry and who are the key players?
- What is the degree of competition in the North America laser diode industry?
- What are the profit margins in the North America laser diode industry?

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