

North America Laser Diode Market Forecast to 2030 - Regional Analysis - by Doping Material (AlGaInP, GaAlAs, GaN, InGaN, and Others), Wavelength (Infrared Laser Diode, Red Laser Diode, Blue Laser Diode, Blue-Violet Laser Diode, and Others), and Application (Telecommunication, Consumer Electronics, Healthcare & Life Sciences, Automotive, Military & Defense, and Others)

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Abstracts

North America laser diode market was valued at US\$ 2,031.78 million in 2022 and is expected to reach US\$ 5,508.93 million by 2030; it is estimated to record a CAGR of 13.3% from 2022 to 2030.

Rise in Electronics Industry Fuels North America Laser Diode Market

A laser diode is a semiconductor that plays a vital role in electronic devices where producing coherent light is essential. Thus, the rise in demand for laser diodes is directly associated with the growth of the electronic industry. The consumer electronic industry's growth is attributed to the growing urbanization and rising disposable income. The growth in people's disposable income will contribute to the strong purchasing power of consumer electronics such as television sets and microwaves. According to the US Bureau of Economic Analysis March 2023, disposable personal income (DPI) in the US grew by 0.5% in February 2023 compared to January 2023. Further, in 2022, reiterating its commitment to forward-leaning microelectronics research, DARPA launched ERI 2.0, emphasizing technologies that can enable electronic systems to function in harsh environments and potential for cutting-edge manufacturing. DARPA intends to invest an

additional US\$ 3 billion in these projects over the following five years. Such initiatives by the government attract global electronic manufacturers to establish units in the country, which contributes to the expansion of the electronic industry. The expansion of electronics industry is further expected to boost the demand for laser diodes.

North America Laser Diode Market Overview

The North America laser diode market is segmented into US, Canada, and Mexico. The market for laser diodes is expanding due to the increased demand for laser-based systems and components in metal processing, consumer electronics, and medical equipment. Moreover, laser diodes have applications in modern defense systems as laser diodes help the military with non-lethal weapons. For instance, in April 2023, the US Department of Defense (DOD) contracted NUBURU to be a part of the multiple award Indefinite Delivery/Indefinite Quantity (IDIQ) contract for the fabrication and delivery of equipment and prototypes to support solid-state high energy laser (HEL) weapon systems.

Several players across North America have launched laser diodes for the application of imaging. For instance, in October 2022, Biotium partnered with OMEC Medical to develop and launch the next-generation Gel-Bright Laser Diode Gel Illuminator. The launched product has excellent performance with a wide range of fluorescent dyes, and it does not require laser safety goggles

North America Laser Diode Market Revenue and Forecast to 2030 (US\$ million)

North America Laser Diode Market Segmentation

The North America laser diode market is segmented based on doping material, wavelength, application, and country. Based on doping material, the North America laser diode market is segmented into AlGaInP, GaAlAs, GaN, InGaN, and others. The AlGaInP segment held the largest market share in 2022.

In terms of wavelength, the North America laser diode market is segmented into infrared laser diode, red laser diode, blue laser diode, blue-violet laser diode, and others. The infrared laser diode segment held the largest market share in 2022.

By application, the North America laser diode market is segmented into telecommunication, consumer electronics, healthcare & life sciences, automotive,

military & defense, and others. The telecommunication segment held the largest market share in 2022.

Based on country, the North America laser diode market is segmented into the US, Canada, and Mexico. The US dominated the North America laser diode market share in 2022.

ams -ORSAM AG, Coherent Corp, IPG Photonics Corp, Jeptonik AG, Mitsubishi Electric Corp, Nuvoton Technology Corporation, Sharp Corp, Sheumann Laser Inc, Sumitomo Electric Industries Ltd, and TRUMPH SE + CO KG are some the leading companies operating in the North America laser diode market.

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