



Laser Diode Market is estimated to Develop at a CAGR of 11.6% during the Forecast Period, Observes TMR Study

Government policies encouraging use of technological innovations and technical breakthroughs are triggering growth of the military and aerospace sectors, which is likely to drive laser diode demand

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Wilmington, Delaware, United States, June 14, 2022 (GLOBE NEWSWIRE) -- Laser diode market forecast study predicts the market to rise at a CAGR of 11.6% during the forecast timeline, from 2022 to 2031. The global market was valued at *more* than US\$ 6.2 Bn in 2021. [Laser diode market](#) research report estimates that the market will surpass valuation of US\$ 18.3 Bn by 2031. Laser diodes are used in broadband communication systems as well as data centers in the telecommunications industry. In analog and digital fibre optic network systems, laser diodes are used to pump lasers in EDFAs (Erbium-doped amplifiers) or in the form of high-power pulsed lasers in the test and measurement industry.



in several industrial applications including heat treatment, welding, precision metal cutting, and cladding is expected to fuel market growth. In order to diversify their income streams, manufacturers can take advantage of additional potential in laser products.

Laser printers, motion sensors, sensors, 3D depth sensors, and optical disk pickup are just a few of the technologies that employ laser diodes. Since data damaged or lost owing to drive aging is reduced in optical data storage, usage of solid-state lasers for data storage is increasing.

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Key Findings of Market Report

- Demand for [autonomous cars](#) is anticipated to grow in both developed as well as developing nations, thereby boosting the laser diode market throughout the forecast period. Additionally, the global market has grown as a result of increasing investment in the development and production of autonomous cars and continuing technological advancements in the automotive industry.
- The aerospace and military industry is a critical end-use industrial category for laser diodes. For decades, laser diodes have been used in the form of pump sources for solid-state systems in the aerospace and military industries. This is still one of the most common applications of laser diode, with high-power laser diode bars and laser diode arrays being the most common formats.
- Based on technology, distributed feedback laser diodes commanded a 35% of the laser diode global market share in 2021. Distributed feedback laser diodes are preferred owing to their improved modulation capacity, simple design and capability to function at high temperatures.
- In 2021, Asia Pacific accounted for 34% of the global laser diode market in terms of volume. The increasing demand for laser diodes in the consumer electronics and automotive industries is largely responsible for the market growth. These end-use industries account for a large portion of overall consumption in Asia Pacific. In the region, China held a significant proportion of the laser diode market.

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Global Laser Diode Market: Growth Drivers



lasers.

- Considering doping material, the GaAs category is expected to increase rapidly in the forthcoming years. The expansion of the segment is likely due to growing demand for a broad variety of products, including commercial displays and lighting, copper welding, and blue-ray players. In electrical circuits, it also creates reduced noise than silicon devices, especially at much higher frequencies.

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Global Laser Diode Market: Key Players

Some of the key market players are

- Frankfurt Laser Company
- Sumitomo Electric Industries, Ltd.
- Rofin-Sinar Technologies Inc.
- Trumpf GmbH + Co. KG
- Infineon Technologies AG
- Sharp Corporation

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Global Laser Diode Market: Segmentation

Doping Material

- InGaN
- GaN
- AlGaInP
- GaAs
- Others

Property (Wavelength)

- Near-Infrared Laser Diode
- Visible Laser Diode
- Quantum and Interband Cascade Laser Diode
- Ultraviolet Laser Diode

Technology

- Distributed Feedback Laser Diodes



End Use Industry

- Aerospace & Defense
- Automotive
- Consumer Electronics
- Electronics & Semiconductors
- IT & Telecommunication
- Others

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by TMR

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[Temperature Sensor Market](#)- Temperature Sensor Market is expected to reach value of US\$ 10.6 Bn by the end of 2031, It is estimated to grow at a CAGR of 5.4% from 2022 to 2031

[Ultrasonic Sensors Market](#)- Ultrasonic Sensors Market is expected to surpass the value of US\$ 7.9 Bn by the end of 2031, It is estimated to expand at a CAGR of 9.3% from 2022 to 2031

[Wavefront Sensor Market](#)- Wavefront Sensor Market is expected to cross the value of US\$ 4 Bn by the end of 2031with Rising demand for adaptive optics in communication industry.

[Sensor Signal Conditioner \(SSC\) ICs Market](#)- The global sensor signal conditioner (SSC) IC market is projected to reach the value of US\$ 1.5 Bn by 2031, expanding at a CAGR of 6.2% during the forecast period

[RFID Sensor Market](#)- The global RFID sensor market is estimated to exceed the valuation of US\$ 18.52 Bn by 2031, expanding at a CAGR of 8% during the forecast period



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