Laser Diode Market by Type, Mode of Operation, Wavelength, Application, and Geography - Global Forecast to 2020

Description:
Laser diodes are used mainly in applications such as communications & optical storage, industrial, medical, military & defense, instrumentation & sensor, and others. Among these, communications & optical storage, industrial, and medical applications are increasingly used. The laser diode market is dynamic and rapidly developing, and new applications are emerging continuously. The increase in the demand for communication & data storage application, given the high demand for optical fiber communications, is also responsible for the growth of this market.

The global laser diode market is expected to grow at a CAGR of 13.0% between 2015 and 2020. The Asia-Pacific region is expected to dominate the market at a CAGR of 15.0% between 2015 and 2020.

The factors driving the laser diode market include the growing industry awareness about laser and its advantages, growing fiber laser market, and tremendous research in the VCSEL market. However, the major restraints for the growth of the market are lack of research and development funding for the military segment and the high initial investment. Projection applications for green laser diode devices are expected to create several opportunities for growth in the market.

This report profiles the major companies involved in the laser diode market such as Osram Licht Group (Germany), Panasonic Semiconductor Solutions Co., Ltd. (Japan), ROHM Co., Ltd. (Japan), IPG Photonics Corp. (U.S.), Sharp Corp. (Japan), Coherent, Inc. (U.S.), Hamamatsu Photonics K.K. (Japan), JDS Uniphase Corp. (U.S.), Jenoptik AG (Germany), Newport Corp. (U.S.), Rofin-Sinar Technologies, Inc. (U.S.), Finisar (U.S.), Avago Technologies (Singapore), Trumpf GmbH + Co. KG (Germany), and Nichia Corp. (Japan).

Scope of the report:
This report categorizes the global market for laser diode on the basis of type, mode of operation, wavelength, application, and geography.

Market segmentation, by type:
- The laser diode market has been segmented on the basis of type into injection laser diode and optically pumped semiconductor laser.

Market segmentation, by mode of operation:
- The laser diode market has been segmented on the basis of mode of operation into continuous wave and pulsed mode.

Market segmentation, by wavelength:
- The laser diode market has been segmented on the basis of wavelength into near-infrared, red, blue, green, and others.

Market segmentation, by application:
- The laser diode market has been segmented on the basis of application into communications & optical storage, industrial, medical, military & defense, instrumentation & sensor, and other applications.

Market segmentation, by geography:
- The geographic analysis covers the Americas, Europe, Asia-Pacific, and Rest of the World (RoW).

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