Laser Diodes Market is expected to grow at a CAGR of 11.2% from 2016 to 2025

The Insight Partners: Recent Research Published on "Laser Diode Market" Study Doping Material, Wavelength, Applications, Geography and Forecast to 2025

PUNE, MAHARASHTRA, INDIA, August 8, 2016 /EINPresswire.com/ -- The Laser Diode Market report profiles key players such as Coherent, Inc., Newport Corporation, Panasonic Semiconductor Solutions Co. Ltd., IPG Photonics Corp., Sharp Corporation, ASML Holding NV, Trumpf GmbH+ Co. KG, Sumitomo Electric Industries, Ltd., Rofin-Sinar Technologies Inc. and Axcel Photonics, Inc.

The global laser diode market has been bifurcated on the basis of wavelength into red laser diode, blue-violet laser diode, blue laser diode, infrared laser diode, and others (ultraviolet and green) laser diodes. The visible range for human eye is 400 nm – 700 nm, while the highest possible wavelength seen by the human eye is 555 nm. Green laser diode being the nearest to the peak of the eye's sensitivity is a standout when compared to the other laser diodes such as blue, violet, and red.

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Brazil led the South America (SAM) laser diode market in 2015 and is likely to continue its dominance by expanding at a CAGR of 12.2% during the forecast period from 2015 to 2025. Brazil boasts of the largest manufacturing sector in SAM, which accounts for nearly one-third of SAM's GDP. Brazil has an array of industries ranging from automobile, steel, and petrochemicals to computers, aircrafts, and consumer durables that deploy laser diodes in their applications.
China led the laser diode market in Asia Pacific (APAC) in 2015 and is expected to continue its dominance by rising at a CAGR of 11.8% during the forecast period from 2015 to 2025. Increasing demand for advanced technology in the healthcare and industrial markets is driving the growth in the laser industry. Moreover, there is a sharp rise in demand for laser diodes within the defense & security verticals for applications such as neutralization of the opponent's weapon systems, airborne laser mine detection system (ALMDS), range finding, anti-missile systems, and target designation.

The U.S. led the laser diode market in North America in 2015 at a revenue share of 59.89%. Even though there is huge demand for laser diodes in the upgrading of wireless technology, the sale of fiber lasers continues to gain momentum in North America due to their demand in FTTH applications. It is anticipated that the fiber laser technology would evolve during the forecast period and 100 Gb/s would become the norm with the focus shifting to the metro/regional landscapes. Furthermore, North America is witnessing an increased demand for laser cutting machines and industrial laser applications due to the significant use of these machines across several end-use verticals such as automotive, defense & aerospace, and consumer electronics.

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Laser diodes are also used in surgeries due to their features which include a diverse range of operating wavelengths. Furthermore, it can also be modulated directly by using frequencies up to GHz range in high-speed communications. Thus, there is no delay in the input of operating surgeon and output of laser radiation. In addition,these are easily adjustable in terms of power output from 0%

to 100%, thereby providing flexibility in the dosage of laser output. On the other hand, solid state lasers have restrictive adjustable power output ranging from 60% to 100%. This feature makes laser diodes the perfect tool for medical and healthcare applications. Thus, the expansion of electronics and healthcare industries complements the growth of the market owing to the substantial utilization of laser diodes across various applications in these industries.

Sameer Joshi
The Insight Partners
+1-646-491-9876
email us here
