

Global Vertical External Cavity Surface Emitting Laser (VECSEL) Market Growth 2024-2030

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Abstracts

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A vertical-external-cavity surface-emitting-laser (VECSEL) is a small semiconductor laser similar to a vertical-cavity surface-emitting laser (VCSEL). VECSELs are used primarily as near infrared devices in laser cooling and spectroscopy, but have also been explored for applications such as telecommunications.

The global Vertical External Cavity Surface Emitting Laser (VECSEL) market size is projected to grow from US\$ 1331.4 million in 2023 to US\$ 2892.6 million in 2030; it is expected to grow at a CAGR of 11.7% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Vertical External Cavity Surface Emitting Laser (VECSEL) Industry Forecast” looks at past sales and reviews total world Vertical External Cavity Surface Emitting Laser (VECSEL) sales in 2023, providing a comprehensive analysis by region and market sector of projected Vertical External Cavity Surface Emitting Laser (VECSEL) sales for 2024 through 2030. With Vertical External Cavity Surface Emitting Laser (VECSEL) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vertical External Cavity Surface Emitting Laser (VECSEL) industry.

This Insight Report provides a comprehensive analysis of the global Vertical External Cavity Surface Emitting Laser (VECSEL) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vertical External Cavity Surface Emitting Laser (VECSEL) portfolios and capabilities, market entry strategies, market positions, and

geographic footprints, to better understand these firms' unique position in an accelerating global Vertical External Cavity Surface Emitting Laser (VECSEL) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vertical External Cavity Surface Emitting Laser (VECSEL) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vertical External Cavity Surface Emitting Laser (VECSEL).

The increasing number of data centers has increased the need for high data transfer speeds to maintain and manage data centers. The ability of VCSEL to emit light at high speed makes it one of the ideal choices for high-speed data transmission applications. Hence, the growing demand for VCSELs for data center optical interconnect infrastructure is expected to provide lucrative opportunities for the growth of the VCSEL market in the coming years. In January 2021, the President of the United States announced plans to strengthen American manufacturing under the Made in America initiative, which focuses on creating technologically advanced and automated manufacturing. The President announced \$300 billion in funding for research and development activities and the incorporation of advanced technologies to boost national production. These technological advancements include automation. Additionally, VCSELs are widely used in Light Detection and Ranging (LiDAR) based technologies to measure or sense range and distance in sensing applications. Hence, the increasing adoption of automation technologies in manufacturing facilities is driving the demand for lidar-based systems. To meet this demand, market players are launching VCSEL products that can be used in vehicle automation systems. In January 2022, Lumentum Operations LLC, an American VCSEL array supplier, partnered with HESAI, a global leader in 3D Light Detection and Ranging (LiDAR) solutions. The collaboration aims to develop a hybrid solid-state LiDAR AT128 for advanced driver assistance systems (ADAS) with a VCSEL-based design to meet cost-effective, automotive-grade reliability and conformance requirements. The use of VCSEL array light sources improves the scalability of LiDAR, thereby increasing the demand of end users for the above-mentioned applications. Hence, such partnerships are contributing to the growth of the North American VCSEL market.

This report presents a comprehensive overview, market shares, and growth opportunities of Vertical External Cavity Surface Emitting Laser (VECSEL) market by product type, application, key manufacturers and key regions and countries.

Segmentation by type

976 nm

980 nm

1480 nm

Others

Segmentation by application

Metal Processing

Medical

Communication

Laboratory

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

II-VI

Furukawa Electric

Polytec GmbH

Lumentum

3SP Technologies

DoGain Laser Technology

Lumics

Oxxius

Thorlabs

InnoLas

Vexlum

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vertical External Cavity Surface Emitting Laser (VECSEL) market?

What factors are driving Vertical External Cavity Surface Emitting Laser (VECSEL) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vertical External Cavity Surface Emitting Laser (VECSEL) market opportunities vary by end market size?

How does Vertical External Cavity Surface Emitting Laser (VECSEL) break out type, application?

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