

Global Vertical External Cavity Surface Emitting Laser (VECSEL) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Vertical External Cavity Surface Emitting Laser (VECSEL) market size was valued at US\$ 1688 million in 2024 and is forecast to a readjusted size of USD 3485 million by 2031 with a CAGR of 11.0% during review period.

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 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 is a detailed and comprehensive analysis for global Vertical External Cavity Surface Emitting Laser (VECSEL) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Vertical External Cavity Surface Emitting Laser (VECSEL) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Vertical External Cavity Surface Emitting Laser (VECSEL) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Vertical External Cavity Surface Emitting Laser (VECSEL) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Vertical External Cavity Surface Emitting Laser (VECSEL) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Vertical External Cavity Surface Emitting Laser (VECSEL)
To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global Vertical External Cavity Surface Emitting Laser (VECSEL) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include II-VI, Furukawa Electric, Polytec GmbH, Lumentum, 3SP Technologies, DoGain Laser Technology, Lumics, Oxixus, Thorlabs, InnoLas, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Vertical External Cavity Surface Emitting Laser (VECSEL) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

976 nm

980 nm

1480 nm

Others

Market segment by Application

Metal Processing

Medical

Communication

Laboratory

Major players covered

II-VI

Furukawa Electric

Polytec GmbH

Lumentum

3SP Technologies

DoGain Laser Technology

Lumics

Oxxius

Thorlabs

InnoLas

Vexlum

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Vertical External Cavity Surface Emitting Laser (VECSEL) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vertical External Cavity Surface Emitting Laser (VECSEL), with price, sales quantity, revenue, and global market share of Vertical External Cavity Surface Emitting Laser (VECSEL) from 2020 to 2025.

Chapter 3, the Vertical External Cavity Surface Emitting Laser (VECSEL) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vertical External Cavity Surface Emitting Laser (VECSEL) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Vertical External Cavity Surface Emitting Laser (VECSEL) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Vertical External Cavity Surface Emitting Laser (VECSEL).

Chapter 14 and 15, to describe Vertical External Cavity Surface Emitting Laser (VECSEL) sales channel, distributors, customers, research findings and conclusion.

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