

# Global Vertical Cavity Surface Emitter Laser Market Growth 2025-2031

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## Abstracts

The global Vertical Cavity Surface Emitter Laser market size is predicted to grow from US\$ 3277 million in 2025 to US\$ 7610 million in 2031; it is expected to grow at a CAGR of 15.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Vertical Cavity Surface Emitting Laser (VCSEL for short) is a special type of laser in which the laser is emitted perpendicularly to the top surface. VCSEL is a compound semiconductor laser, and its manufacturing process is different from that of general semiconductor lasers. VCSELS have a circular or square vertical cavity with the active region on the upper surface of the cavity. Light exits the top surface via two distributed Bragg reflectors (DBR) or a combination of a DBR and an output coupler (OC).

With the rapid development of the Internet and wireless communication technologies, the demand for data communication continues to grow. VCSEL has important applications in the field of data communication, such as optical fiber communication, local area network, access network, etc., so its market demand is also growing. VCSEL is also widely used in the field of optical communications, such as optical storage, optical interconnection, optical sensing, etc. With the continuous development and popularization of optical communication technology, the demand of VCSEL market is also increasing. VCSEL also has important applications in the field of 3D sensing, such as facial recognition, autonomous driving, drones, etc. With the continuous development and popularization of 3D sensing technology, the demand of VCSEL market is also increasing.

LP Information, Inc. (LPI) ' newest research report, the “Vertical Cavity Surface Emitter Laser Industry Forecast” looks at past sales and reviews total world Vertical Cavity Surface Emitter Laser sales in 2024, providing a comprehensive analysis by region and market sector of projected Vertical Cavity Surface Emitter Laser sales for 2025 through 2031. With Vertical Cavity Surface Emitter Laser sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vertical Cavity Surface Emitter Laser industry.

This Insight Report provides a comprehensive analysis of the global Vertical Cavity Surface Emitter Laser 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 Cavity Surface Emitter Laser portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vertical Cavity Surface Emitter Laser market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vertical Cavity Surface Emitter Laser 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 Cavity Surface Emitter Laser.

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

### **Segmentation by Type:**

Single Mode VCSEL

Multimode VCSEL

### **Segmentation by Application:**

Data Communication

Infrared Illumination

Industrial Heating

Others

**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 analysing the company's coverage, product portfolio, its market penetration.

IQE Public Limited Company

Finisar Corporation

Broadcom Ltd

Coherent

Panasonic Corporation

Newport Corporation

Royal Philips Electronic

Princeton Optronics

Lumentum Holdings

Britannica

Ophir Photonics

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Vertical Cavity Surface Emitter Laser market?

What factors are driving Vertical Cavity Surface Emitter Laser market growth, globally and by region?

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

How do Vertical Cavity Surface Emitter Laser market opportunities vary by end market size?

How does Vertical Cavity Surface Emitter Laser break out by Type, by Application?

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