

Vertical Cavity Surface Emitting Laser (VCSEL) Market - Forecasts from 2019 to 2024

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Abstracts

The Vertical Cavity Surface Emitting Laser (VCSEL) market is projected to grow at a CAGR of 26.26% to reach US\$3,830.323 million by 2024, from US\$945.455 million in 2018. Vertical cavity surface emitting laser (VCSEL) is the semiconductor-based laser diode which emits an efficient optical beam vertically from the topmost surface. The major factors driving the demand for VCSEL are increasing adoption of these lasers for various applications including data transfer, proximity sensing and for infrared illumination. North America and Europe held a significant market share owing to the rising expenditure on research and development activities and early adoption of technology. The Asia Pacific region will witness impressive growth over the forecast period.

DRIVERS

Implementation of front 3D imaging feature in the smartphones.

Growing applications in intelligent and autonomous vehicles.

RESTRAINTS

Availability of substitute

INDUSTRY UPDATE

Finisar Corporation expanded its 3D VCSEL production capacity with the

opening of its new facility in Sherman, Texas in July 2018.

In December 2018, TRUMPF acquired Photonics GmbH from Philips – a leader in VCSEL market, enabling them to enter the new market and expand its existing portfolio.

Segmentation

The global VCSEL market has been analyzed through the following segments:

By Material

Gallium Arsenide

Indium Phosphide

Gallium Nitride

Others

By Type

Single Mode

Multimode

By End-User Industry

Consumer Electronics

Automotive

Telecommunication

Healthcare

Military and Defense

Industrial

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

United Kingdom

Germany

France

Spain

Others

Middle East and Africa

Israel

Others

Asia Pacific

Japan

China

India

South Korea

Others

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