

# **Middle East & Africa Vertical Cavity Surface Emitting Laser (VCSEL) Market Forecast to 2030 – COVID-19 Impact and Regional Analysis – by Type (Single Mode and Multi-Mode), Material [(Gallium Arsenide (GAAS), Indium Phosphide (INP), Others)], Data Rate (Up to 10 GBPS, 10.1 to 25 GBPS, and Above 25 GBPS), Wavelength (Red, Near Infrared (NIR), and Short Wave Infrared (SWIR), Application (Sensing, Data Communication, Industrial Heating & Printing, and Others), and End-use Industry (Mobile & Consumer, Telecom & Infrastructure, Industrial, Defense & Aerospace, Medical, and Automotive & Mobility)**

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## **Abstracts**

The Middle East & Africa vertical cavity surface emitting laser market is expected to grow from US\$ 63.09 million in 2023 to US\$ 139.91 million by 2030. It is estimated to grow at a CAGR of 12.0% from 2023 to 2030.

### **Miniaturization in Electronics Fuel Middle East & Africa Vertical Cavity Surface Emitting Laser (VCSEL) Market**

The miniaturization of electronic components plays an essential role in the electronic industry as it helps save space so that additional parts or technology can be integrated and reduce the overall size of consumer electronics, medical devices, and automobiles. For example, the free space can allow the incorporation of larger batteries without

impacting the size of the electronic device. The miniaturization of electronics leads to less power consumption due to its small size and enhanced efficiency. Thus, the benefits of miniaturization are considered to surge its adoption in the electronics market in the future.

Players operating in the VCSEL industry are launching innovative products to support electronic components in miniature devices. In October 2022, TRUMPF added a multi-junction feature to its VCSEL array portfolio. This feature increases the output by three times compared to a normal VCSEL device. This multi-junction technology can support applications such as LiDAR in the automotives to have high-output power within limited space for object identification. Thus, the benefits of VCSEL products mentioned above will propel its demand for miniaturized electronics during the forecast period.

### Middle East & Africa Vertical Cavity Surface Emitting Laser (VCSEL) Market Overview

The Middle East & Africa VCSEL market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. A few prominent industries across the region include consumer electronics, semiconductors, automotive, and telecommunications. The growing automotive industry in the MEA propels the demand for VCSELs in the region for the vehicle's inclusion of sensing technologies. According to the Managing Director of Nissan Middle East in March 2022, Nissan Middle East reported a 9.9% sales increase across the Gulf region in the three quarters of early 2021 compared to 2020. Thus, rising sales of automotive vehicles have increased the demand for VCSELs to support the development of VCSEL-powered automotive sensor technologies (such as cameras, image sensors, speed sensors, and temperature sensors), boosting the VCSEL market in the region.

### Exhibit: Middle East & Africa Vertical Cavity Surface Emitting Laser (VCSEL) Market Revenue and Forecast to 2030 (US\$ Million)

### Middle East & Africa Vertical Cavity Surface Emitting Laser (VCSEL) Market Segmentation

The Middle East & Africa vertical cavity surface emitting laser market is segmented into type, material, data rate, wavelength, application, end-use industry, and country.

Based on type, the Middle East & Africa vertical cavity surface emitting laser market is segmented into single mode and multi-mode. The single mode segment held a larger share of the Middle East & Africa vertical cavity surface emitting laser market in 2023.

Based on material, the Middle East & Africa vertical cavity surface emitting laser market is segmented into Gallium Arsenide (GAAS), Indium Phosphide (INP), others. The Gallium Arsenide (GAAS) segment held the largest share of the Middle East & Africa vertical cavity surface emitting laser market in 2023.

Based on data rate, the Middle East & Africa vertical cavity surface emitting laser market is segmented into Up to 10 GBPS, 10.1 to 25 GBPS, and Above 25 GBPS. The above 25 GBPS segment held the largest share of the Middle East & Africa vertical cavity surface emitting laser market in 2023.

Based on wavelength, the Middle East & Africa vertical cavity surface emitting laser market is segmented into Red, Near Infrared (NIR), and Short-Wave Infrared (SWIR). The red segment held the largest share of the Middle East & Africa vertical cavity surface emitting laser market in 2023.

Based on application, the Middle East & Africa vertical cavity surface emitting laser market is segmented into sensing, data communication, industrial heating & printing, and others. The sensing segment held the largest share of the Middle East & Africa vertical cavity surface emitting laser market in 2023.

Based on end-use industry, the Middle East & Africa vertical cavity surface emitting laser market is segmented into mobile & consumer, telecom & infrastructure, industrial, defense & aerospace, medical, and automotive & mobility. The mobile & consumer segment held the largest share of the Middle East & Africa vertical cavity surface emitting laser market in 2023.

Based on country, the Middle East & Africa vertical cavity surface emitting laser market is segmented into Saudi Arabia, the UAE, South Africa, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the share of the Middle East & Africa vertical cavity surface emitting laser market in 2023.

ams-OSRAM AG; Broadcom Inc; Hamamatsu Photonics KK; Leonardo SpA; Lumentum Holdings Inc; and TRUMPF SE + Co KG are the leading companies operating in the Middle East & Africa vertical cavity surface emitting laser market.

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