

Global Single-Mode VCSEL Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Single-Mode VCSEL market size will reach 1,087.09 Million USD in 2025 and is projected to reach 2,649.18 Million USD by 2032, with a CAGR of 13.57% (2025-2032). Notably, the China Single-Mode VCSEL market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A single-mode VCSEL (Vertical-Cavity Surface-Emitting Laser) is a type of semiconductor laser diode that emits coherent light perpendicular to the surface of the chip. Unlike traditional edge-emitting lasers, which emit light from the edges of the chip, VCSELS emit light from the top surface, allowing for easier integration into optical systems and more efficient coupling of light into optical fibers. Single-mode VCSELS are designed to emit light in a single transverse mode, resulting in a highly focused and narrow beam of light with excellent spatial coherence and beam quality. These lasers are commonly used in telecommunications, data communications, and sensing applications where precise control and low divergence of the laser beam are essential. They offer advantages such as high-speed data transmission, low power consumption, and reliability, making them critical components in a variety of photonics and optoelectronic applications.

The major global manufacturers of Single-Mode VCSEL include Coherent(II-VI), Lumentum, ams-OSRAM, TRUMPF, Broadcom, etc. The global players competition

landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Single-Mode VCSEL. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Single-Mode VCSEL market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Single-Mode VCSEL market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Single-Mode VCSEL industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Single-Mode VCSEL Include:

Coherent(II-VI)

Lumentum

ams-OSRAM

TRUMPF

Broadcom

Single-Mode VCSEL Product Segment Include:

Gallium Arsenide (GaAs)

Indium Phosphide (InP)

Others

Single-Mode VCSEL Product Application Include:

Consumer Electronics

Data Center

Commercial & Industrial

Automotive

Healthcare

Military

Chapter Scope

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