

Global Single-mode and Multimode VCSEL Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G27EDCE18CC5EN.html>

Date: November 2023

Pages: 147

Price: US\$ 4,480.00 (Single User License)

ID: G27EDCE18CC5EN

Abstracts

The global Single-mode and Multimode VCSEL market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Single-mode and multimode VCSELs differ in optical properties, preparation processes and applications. Choosing the right VCSEL depends on the specific application needs, such as whether a highly directional beam or multiple independent beams is required, as well as the requirements for output power, modulation bandwidth and spectral characteristics.

Single-mode and multimode VCSELs are common VCSEL types that differ in output beam characteristics and applications. The single-mode VCSEL refers to a VCSEL that can only emit a single longitudinal mode beam. The single-mode beam has a small spot diameter and high beam quality, and the propagation of the beam is highly directional. The multimode VCSEL refers to a VCSEL that can emit multiple longitudinal mode beams. Multimode beams have larger spot diameters and lower beam quality. The propagation of the beam presents multiple spot shapes, and there may be phase differences and interference between different modes.

This report studies the global Single-mode and Multimode VCSEL production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-mode and Multimode VCSEL, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Single-mode and

Multimode VCSEL that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-mode and Multimode VCSEL total production and demand, 2018-2029, (Units)

Global Single-mode and Multimode VCSEL total production value, 2018-2029, (USD Million)

Global Single-mode and Multimode VCSEL production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Single-mode and Multimode VCSEL consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Single-mode and Multimode VCSEL domestic production, consumption, key domestic manufacturers and share

Global Single-mode and Multimode VCSEL production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Single-mode and Multimode VCSEL production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Single-mode and Multimode VCSEL production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Single-mode and Multimode VCSEL market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Coherent(II-VI), Lumentum, ams-OSRAM, Trumpf, Broadcom, Leonardo Electronics, MKS Instruments, Santec and VERTILAS, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single-mode and Multimode VCSEL market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Single-mode and Multimode VCSEL Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-mode and Multimode VCSEL Market, Segmentation by Type

760 nm

780 nm

850 nm

940 nm

Global Single-mode and Multimode VCSEL Market, Segmentation by Application

Optical Communication

Optical Storage

Optical Sensor

Others

Companies Profiled:

Coherent(II-VI)

Lumentum

ams-OSRAM

Trumpf

Broadcom

Leonardo Electronics

MKS Instruments

Santec

VERTILAS

Vertilite

Alight Technologies

WIN Semiconductors

Raycan

Qoptronics

FiberLake

Key Questions Answered

1. How big is the global Single-mode and Multimode VCSEL market?
2. What is the demand of the global Single-mode and Multimode VCSEL market?
3. What is the year over year growth of the global Single-mode and Multimode VCSEL market?
4. What is the production and production value of the global Single-mode and Multimode VCSEL market?
5. Who are the key producers in the global Single-mode and Multimode VCSEL market?

Contents

1 SUPPLY SUMMARY

- 1.1 Single-mode and Multimode VCSEL Introduction
- 1.2 World Single-mode and Multimode VCSEL Supply & Forecast
 - 1.2.1 World Single-mode and Multimode VCSEL Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Single-mode and Multimode VCSEL Production (2018-2029)
 - 1.2.3 World Single-mode and Multimode VCSEL Pricing Trends (2018-2029)
- 1.3 World Single-mode and Multimode VCSEL Production by Region (Based on Production Site)
 - 1.3.1 World Single-mode and Multimode VCSEL Production Value by Region (2018-2029)
 - 1.3.2 World Single-mode and Multimode VCSEL Production by Region (2018-2029)
 - 1.3.3 World Single-mode and Multimode VCSEL Average Price by Region (2018-2029)
 - 1.3.4 North America Single-mode and Multimode VCSEL Production (2018-2029)
 - 1.3.5 Europe Single-mode and Multimode VCSEL Production (2018-2029)
 - 1.3.6 China Single-mode and Multimode VCSEL Production (2018-2029)
 - 1.3.7 Japan Single-mode and Multimode VCSEL Production (2018-2029)
 - 1.3.8 South Korea Single-mode and Multimode VCSEL Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Single-mode and Multimode VCSEL Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Single-mode and Multimode VCSEL Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Single-mode and Multimode VCSEL Demand (2018-2029)
- 2.2 World Single-mode and Multimode VCSEL Consumption by Region
 - 2.2.1 World Single-mode and Multimode VCSEL Consumption by Region (2018-2023)
 - 2.2.2 World Single-mode and Multimode VCSEL Consumption Forecast by Region (2024-2029)
- 2.3 United States Single-mode and Multimode VCSEL Consumption (2018-2029)
- 2.4 China Single-mode and Multimode VCSEL Consumption (2018-2029)
- 2.5 Europe Single-mode and Multimode VCSEL Consumption (2018-2029)
- 2.6 Japan Single-mode and Multimode VCSEL Consumption (2018-2029)
- 2.7 South Korea Single-mode and Multimode VCSEL Consumption (2018-2029)

- 2.8 ASEAN Single-mode and Multimode VCSEL Consumption (2018-2029)
- 2.9 India Single-mode and Multimode VCSEL Consumption (2018-2029)

3 WORLD SINGLE-MODE AND MULTIMODE VCSEL MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Single-mode and Multimode VCSEL Production Value by Manufacturer (2018-2023)
- 3.2 World Single-mode and Multimode VCSEL Production by Manufacturer (2018-2023)
- 3.3 World Single-mode and Multimode VCSEL Average Price by Manufacturer (2018-2023)
- 3.4 Single-mode and Multimode VCSEL Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Single-mode and Multimode VCSEL Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Single-mode and Multimode VCSEL in 2022
 - 3.5.3 Global Concentration Ratios (CR8) for Single-mode and Multimode VCSEL in 2022
- 3.6 Single-mode and Multimode VCSEL Market: Overall Company Footprint Analysis
 - 3.6.1 Single-mode and Multimode VCSEL Market: Region Footprint
 - 3.6.2 Single-mode and Multimode VCSEL Market: Company Product Type Footprint
 - 3.6.3 Single-mode and Multimode VCSEL Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Single-mode and Multimode VCSEL Production Value Comparison
 - 4.1.1 United States VS China: Single-mode and Multimode VCSEL Production Value Comparison (2018 & 2022 & 2029)
 - 4.1.2 United States VS China: Single-mode and Multimode VCSEL Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Single-mode and Multimode VCSEL Production Comparison

4.2.1 United States VS China: Single-mode and Multimode VCSEL Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Single-mode and Multimode VCSEL Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Single-mode and Multimode VCSEL Consumption Comparison

4.3.1 United States VS China: Single-mode and Multimode VCSEL Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Single-mode and Multimode VCSEL Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Single-mode and Multimode VCSEL Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Single-mode and Multimode VCSEL Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Single-mode and Multimode VCSEL Production Value (2018-2023)

4.4.3 United States Based Manufacturers Single-mode and Multimode VCSEL Production (2018-2023)

4.5 China Based Single-mode and Multimode VCSEL Manufacturers and Market Share

4.5.1 China Based Single-mode and Multimode VCSEL Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Single-mode and Multimode VCSEL Production Value (2018-2023)

4.5.3 China Based Manufacturers Single-mode and Multimode VCSEL Production (2018-2023)

4.6 Rest of World Based Single-mode and Multimode VCSEL Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Single-mode and Multimode VCSEL Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Single-mode and Multimode VCSEL Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Single-mode and Multimode VCSEL Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Single-mode and Multimode VCSEL Market Size Overview by Type: 2018 VS

2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 760 nm

5.2.2 780 nm

5.2.3 850 nm

5.2.4 940 nm

5.3 Market Segment by Type

5.3.1 World Single-mode and Multimode VCSEL Production by Type (2018-2029)

5.3.2 World Single-mode and Multimode VCSEL Production Value by Type (2018-2029)

5.3.3 World Single-mode and Multimode VCSEL Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Single-mode and Multimode VCSEL Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Optical Communication

6.2.2 Optical Storage

6.2.3 Optical Sensor

6.2.4 Others

6.3 Market Segment by Application

6.3.1 World Single-mode and Multimode VCSEL Production by Application (2018-2029)

6.3.2 World Single-mode and Multimode VCSEL Production Value by Application (2018-2029)

6.3.3 World Single-mode and Multimode VCSEL Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Coherent(II-VI)

7.1.1 Coherent(II-VI) Details

7.1.2 Coherent(II-VI) Major Business

7.1.3 Coherent(II-VI) Single-mode and Multimode VCSEL Product and Services

7.1.4 Coherent(II-VI) Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Coherent(II-VI) Recent Developments/Updates

7.1.6 Coherent(II-VI) Competitive Strengths & Weaknesses

7.2 Lumentum

7.2.1 Lumentum Details

7.2.2 Lumentum Major Business

7.2.3 Lumentum Single-mode and Multimode VCSEL Product and Services

7.2.4 Lumentum Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Lumentum Recent Developments/Updates

7.2.6 Lumentum Competitive Strengths & Weaknesses

7.3 ams-OSRAM

7.3.1 ams-OSRAM Details

7.3.2 ams-OSRAM Major Business

7.3.3 ams-OSRAM Single-mode and Multimode VCSEL Product and Services

7.3.4 ams-OSRAM Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 ams-OSRAM Recent Developments/Updates

7.3.6 ams-OSRAM Competitive Strengths & Weaknesses

7.4 Trumpf

7.4.1 Trumpf Details

7.4.2 Trumpf Major Business

7.4.3 Trumpf Single-mode and Multimode VCSEL Product and Services

7.4.4 Trumpf Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Trumpf Recent Developments/Updates

7.4.6 Trumpf Competitive Strengths & Weaknesses

7.5 Broadcom

7.5.1 Broadcom Details

7.5.2 Broadcom Major Business

7.5.3 Broadcom Single-mode and Multimode VCSEL Product and Services

7.5.4 Broadcom Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 Broadcom Recent Developments/Updates

7.5.6 Broadcom Competitive Strengths & Weaknesses

7.6 Leonardo Electronics

7.6.1 Leonardo Electronics Details

7.6.2 Leonardo Electronics Major Business

7.6.3 Leonardo Electronics Single-mode and Multimode VCSEL Product and Services

7.6.4 Leonardo Electronics Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.6.5 Leonardo Electronics Recent Developments/Updates

- 7.6.6 Leonardo Electronics Competitive Strengths & Weaknesses
- 7.7 MKS Instruments
 - 7.7.1 MKS Instruments Details
 - 7.7.2 MKS Instruments Major Business
 - 7.7.3 MKS Instruments Single-mode and Multimode VCSEL Product and Services
 - 7.7.4 MKS Instruments Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.7.5 MKS Instruments Recent Developments/Updates
 - 7.7.6 MKS Instruments Competitive Strengths & Weaknesses
- 7.8 Santec
 - 7.8.1 Santec Details
 - 7.8.2 Santec Major Business
 - 7.8.3 Santec Single-mode and Multimode VCSEL Product and Services
 - 7.8.4 Santec Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.8.5 Santec Recent Developments/Updates
 - 7.8.6 Santec Competitive Strengths & Weaknesses
- 7.9 VERTILAS
 - 7.9.1 VERTILAS Details
 - 7.9.2 VERTILAS Major Business
 - 7.9.3 VERTILAS Single-mode and Multimode VCSEL Product and Services
 - 7.9.4 VERTILAS Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.9.5 VERTILAS Recent Developments/Updates
 - 7.9.6 VERTILAS Competitive Strengths & Weaknesses
- 7.10 Vertilite
 - 7.10.1 Vertilite Details
 - 7.10.2 Vertilite Major Business
 - 7.10.3 Vertilite Single-mode and Multimode VCSEL Product and Services
 - 7.10.4 Vertilite Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.10.5 Vertilite Recent Developments/Updates
 - 7.10.6 Vertilite Competitive Strengths & Weaknesses
- 7.11 Alight Technologies
 - 7.11.1 Alight Technologies Details
 - 7.11.2 Alight Technologies Major Business
 - 7.11.3 Alight Technologies Single-mode and Multimode VCSEL Product and Services
 - 7.11.4 Alight Technologies Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)

- 7.11.5 Alight Technologies Recent Developments/Updates
- 7.11.6 Alight Technologies Competitive Strengths & Weaknesses
- 7.12 WIN Semiconductors
 - 7.12.1 WIN Semiconductors Details
 - 7.12.2 WIN Semiconductors Major Business
 - 7.12.3 WIN Semiconductors Single-mode and Multimode VCSEL Product and Services
 - 7.12.4 WIN Semiconductors Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.12.5 WIN Semiconductors Recent Developments/Updates
 - 7.12.6 WIN Semiconductors Competitive Strengths & Weaknesses
- 7.13 Raycan
 - 7.13.1 Raycan Details
 - 7.13.2 Raycan Major Business
 - 7.13.3 Raycan Single-mode and Multimode VCSEL Product and Services
 - 7.13.4 Raycan Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.13.5 Raycan Recent Developments/Updates
 - 7.13.6 Raycan Competitive Strengths & Weaknesses
- 7.14 Qoptronics
 - 7.14.1 Qoptronics Details
 - 7.14.2 Qoptronics Major Business
 - 7.14.3 Qoptronics Single-mode and Multimode VCSEL Product and Services
 - 7.14.4 Qoptronics Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.14.5 Qoptronics Recent Developments/Updates
 - 7.14.6 Qoptronics Competitive Strengths & Weaknesses
- 7.15 FiberLake
 - 7.15.1 FiberLake Details
 - 7.15.2 FiberLake Major Business
 - 7.15.3 FiberLake Single-mode and Multimode VCSEL Product and Services
 - 7.15.4 FiberLake Single-mode and Multimode VCSEL Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.15.5 FiberLake Recent Developments/Updates
 - 7.15.6 FiberLake Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Single-mode and Multimode VCSEL Industry Chain

8.2 Single-mode and Multimode VCSEL Upstream Analysis

8.2.1 Single-mode and Multimode VCSEL Core Raw Materials

8.2.2 Main Manufacturers of Single-mode and Multimode VCSEL Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Single-mode and Multimode VCSEL Production Mode

8.6 Single-mode and Multimode VCSEL Procurement Model

8.7 Single-mode and Multimode VCSEL Industry Sales Model and Sales Channels

8.7.1 Single-mode and Multimode VCSEL Sales Model

8.7.2 Single-mode and Multimode VCSEL Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Single-mode and Multimode VCSEL Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Single-mode and Multimode VCSEL Production Value by Region (2018-2023) & (USD Million)

Table 3. World Single-mode and Multimode VCSEL Production Value by Region (2024-2029) & (USD Million)

Table 4. World Single-mode and Multimode VCSEL Production Value Market Share by Region (2018-2023)

Table 5. World Single-mode and Multimode VCSEL Production Value Market Share by Region (2024-2029)

Table 6. World Single-mode and Multimode VCSEL Production by Region (2018-2023) & (Units)

Table 7. World Single-mode and Multimode VCSEL Production by Region (2024-2029) & (Units)

Table 8. World Single-mode and Multimode VCSEL Production Market Share by Region (2018-2023)

Table 9. World Single-mode and Multimode VCSEL Production Market Share by Region (2024-2029)

Table 10. World Single-mode and Multimode VCSEL Average Price by Region (2018-2023) & (US\$/Unit)

Table 11. World Single-mode and Multimode VCSEL Average Price by Region (2024-2029) & (US\$/Unit)

Table 12. Single-mode and Multimode VCSEL Major Market Trends

Table 13. World Single-mode and Multimode VCSEL Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Units)

Table 14. World Single-mode and Multimode VCSEL Consumption by Region (2018-2023) & (Units)

Table 15. World Single-mode and Multimode VCSEL Consumption Forecast by Region (2024-2029) & (Units)

Table 16. World Single-mode and Multimode VCSEL Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Single-mode and Multimode VCSEL Producers in 2022

Table 18. World Single-mode and Multimode VCSEL Production by Manufacturer (2018-2023) & (Units)

Table 19. Production Market Share of Key Single-mode and Multimode VCSEL Producers in 2022

Table 20. World Single-mode and Multimode VCSEL Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 21. Global Single-mode and Multimode VCSEL Company Evaluation Quadrant

Table 22. World Single-mode and Multimode VCSEL Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Single-mode and Multimode VCSEL Production Site of Key Manufacturer

Table 24. Single-mode and Multimode VCSEL Market: Company Product Type Footprint

Table 25. Single-mode and Multimode VCSEL Market: Company Product Application Footprint

Table 26. Single-mode and Multimode VCSEL Competitive Factors

Table 27. Single-mode and Multimode VCSEL New Entrant and Capacity Expansion Plans

Table 28. Single-mode and Multimode VCSEL Mergers & Acquisitions Activity

Table 29. United States VS China Single-mode and Multimode VCSEL Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Single-mode and Multimode VCSEL Production Comparison, (2018 & 2022 & 2029) & (Units)

Table 31. United States VS China Single-mode and Multimode VCSEL Consumption Comparison, (2018 & 2022 & 2029) & (Units)

Table 32. United States Based Single-mode and Multimode VCSEL Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Single-mode and Multimode VCSEL Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Single-mode and Multimode VCSEL Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Single-mode and Multimode VCSEL Production (2018-2023) & (Units)

Table 36. United States Based Manufacturers Single-mode and Multimode VCSEL Production Market Share (2018-2023)

Table 37. China Based Single-mode and Multimode VCSEL Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Single-mode and Multimode VCSEL Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Single-mode and Multimode VCSEL Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Single-mode and Multimode VCSEL Production (2018-2023) & (Units)

Table 41. China Based Manufacturers Single-mode and Multimode VCSEL Production Market Share (2018-2023)

Table 42. Rest of World Based Single-mode and Multimode VCSEL Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Single-mode and Multimode VCSEL Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Single-mode and Multimode VCSEL Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Single-mode and Multimode VCSEL Production (2018-2023) & (Units)

Table 46. Rest of World Based Manufacturers Single-mode and Multimode VCSEL Production Market Share (2018-2023)

Table 47. World Single-mode and Multimode VCSEL Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Single-mode and Multimode VCSEL Production by Type (2018-2023) & (Units)

Table 49. World Single-mode and Multimode VCSEL Production by Type (2024-2029) & (Units)

Table 50. World Single-mode and Multimode VCSEL Production Value by Type (2018-2023) & (USD Million)

Table 51. World Single-mode and Multimode VCSEL Production Value by Type (2024-2029) & (USD Million)

Table 52. World Single-mode and Multimode VCSEL Average Price by Type (2018-2023) & (US\$/Unit)

Table 53. World Single-mode and Multimode VCSEL Average Price by Type (2024-2029) & (US\$/Unit)

Table 54. World Single-mode and Multimode VCSEL Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Single-mode and Multimode VCSEL Production by Application (2018-2023) & (Units)

Table 56. World Single-mode and Multimode VCSEL Production by Application (2024-2029) & (Units)

Table 57. World Single-mode and Multimode VCSEL Production Value by Application (2018-2023) & (USD Million)

Table 58. World Single-mode and Multimode VCSEL Production Value by Application (2024-2029) & (USD Million)

Table 59. World Single-mode and Multimode VCSEL Average Price by Application

(2018-2023) & (US\$/Unit)

Table 60. World Single-mode and Multimode VCSEL Average Price by Application (2024-2029) & (US\$/Unit)

Table 61. Coherent(II-VI) Basic Information, Manufacturing Base and Competitors

Table 62. Coherent(II-VI) Major Business

Table 63. Coherent(II-VI) Single-mode and Multimode VCSEL Product and Services

Table 64. Coherent(II-VI) Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Coherent(II-VI) Recent Developments/Updates

Table 66. Coherent(II-VI) Competitive Strengths & Weaknesses

Table 67. Lumentum Basic Information, Manufacturing Base and Competitors

Table 68. Lumentum Major Business

Table 69. Lumentum Single-mode and Multimode VCSEL Product and Services

Table 70. Lumentum Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Lumentum Recent Developments/Updates

Table 72. Lumentum Competitive Strengths & Weaknesses

Table 73. ams-OSRAM Basic Information, Manufacturing Base and Competitors

Table 74. ams-OSRAM Major Business

Table 75. ams-OSRAM Single-mode and Multimode VCSEL Product and Services

Table 76. ams-OSRAM Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. ams-OSRAM Recent Developments/Updates

Table 78. ams-OSRAM Competitive Strengths & Weaknesses

Table 79. Trumpf Basic Information, Manufacturing Base and Competitors

Table 80. Trumpf Major Business

Table 81. Trumpf Single-mode and Multimode VCSEL Product and Services

Table 82. Trumpf Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Trumpf Recent Developments/Updates

Table 84. Trumpf Competitive Strengths & Weaknesses

Table 85. Broadcom Basic Information, Manufacturing Base and Competitors

Table 86. Broadcom Major Business

Table 87. Broadcom Single-mode and Multimode VCSEL Product and Services

Table 88. Broadcom Single-mode and Multimode VCSEL Production (Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2018-2023)

Table 89. Broadcom Recent Developments/Updates

Table 90. Broadcom Competitive Strengths & Weaknesses

Table 91. Leonardo Electronics Basic Information, Manufacturing Base and Competitors

Table 92. Leonardo Electronics Major Business

Table 93. Leonardo Electronics Single-mode and Multimode VCSEL Product and Services

Table 94. Leonardo Electronics Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Leonardo Electronics Recent Developments/Updates

Table 96. Leonardo Electronics Competitive Strengths & Weaknesses

Table 97. MKS Instruments Basic Information, Manufacturing Base and Competitors

Table 98. MKS Instruments Major Business

Table 99. MKS Instruments Single-mode and Multimode VCSEL Product and Services

Table 100. MKS Instruments Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. MKS Instruments Recent Developments/Updates

Table 102. MKS Instruments Competitive Strengths & Weaknesses

Table 103. Santec Basic Information, Manufacturing Base and Competitors

Table 104. Santec Major Business

Table 105. Santec Single-mode and Multimode VCSEL Product and Services

Table 106. Santec Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. Santec Recent Developments/Updates

Table 108. Santec Competitive Strengths & Weaknesses

Table 109. VERTILAS Basic Information, Manufacturing Base and Competitors

Table 110. VERTILAS Major Business

Table 111. VERTILAS Single-mode and Multimode VCSEL Product and Services

Table 112. VERTILAS Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. VERTILAS Recent Developments/Updates

Table 114. VERTILAS Competitive Strengths & Weaknesses

Table 115. Vertilite Basic Information, Manufacturing Base and Competitors

Table 116. Vertilite Major Business

- Table 117. Vertilite Single-mode and Multimode VCSEL Product and Services
- Table 118. Vertilite Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 119. Vertilite Recent Developments/Updates
- Table 120. Vertilite Competitive Strengths & Weaknesses
- Table 121. Alight Technologies Basic Information, Manufacturing Base and Competitors
- Table 122. Alight Technologies Major Business
- Table 123. Alight Technologies Single-mode and Multimode VCSEL Product and Services
- Table 124. Alight Technologies Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 125. Alight Technologies Recent Developments/Updates
- Table 126. Alight Technologies Competitive Strengths & Weaknesses
- Table 127. WIN Semiconductors Basic Information, Manufacturing Base and Competitors
- Table 128. WIN Semiconductors Major Business
- Table 129. WIN Semiconductors Single-mode and Multimode VCSEL Product and Services
- Table 130. WIN Semiconductors Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 131. WIN Semiconductors Recent Developments/Updates
- Table 132. WIN Semiconductors Competitive Strengths & Weaknesses
- Table 133. Raycan Basic Information, Manufacturing Base and Competitors
- Table 134. Raycan Major Business
- Table 135. Raycan Single-mode and Multimode VCSEL Product and Services
- Table 136. Raycan Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 137. Raycan Recent Developments/Updates
- Table 138. Raycan Competitive Strengths & Weaknesses
- Table 139. Qoptronics Basic Information, Manufacturing Base and Competitors
- Table 140. Qoptronics Major Business
- Table 141. Qoptronics Single-mode and Multimode VCSEL Product and Services
- Table 142. Qoptronics Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. Qoptronics Recent Developments/Updates

Table 144. FiberLake Basic Information, Manufacturing Base and Competitors

Table 145. FiberLake Major Business

Table 146. FiberLake Single-mode and Multimode VCSEL Product and Services

Table 147. FiberLake Single-mode and Multimode VCSEL Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 148. Global Key Players of Single-mode and Multimode VCSEL Upstream (Raw Materials)

Table 149. Single-mode and Multimode VCSEL Typical Customers

Table 150. Single-mode and Multimode VCSEL Typical Distributors

LIST OF FIGURE

Figure 1. Single-mode and Multimode VCSEL Picture

Figure 2. World Single-mode and Multimode VCSEL Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Single-mode and Multimode VCSEL Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Single-mode and Multimode VCSEL Production (2018-2029) & (Units)

Figure 5. World Single-mode and Multimode VCSEL Average Price (2018-2029) & (US\$/Unit)

Figure 6. World Single-mode and Multimode VCSEL Production Value Market Share by Region (2018-2029)

Figure 7. World Single-mode and Multimode VCSEL Production Market Share by Region (2018-2029)

Figure 8. North America Single-mode and Multimode VCSEL Production (2018-2029) & (Units)

Figure 9. Europe Single-mode and Multimode VCSEL Production (2018-2029) & (Units)

Figure 10. China Single-mode and Multimode VCSEL Production (2018-2029) & (Units)

Figure 11. Japan Single-mode and Multimode VCSEL Production (2018-2029) & (Units)

Figure 12. South Korea Single-mode and Multimode VCSEL Production (2018-2029) & (Units)

Figure 13. Single-mode and Multimode VCSEL Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Single-mode and Multimode VCSEL Consumption (2018-2029) & (Units)

Figure 16. World Single-mode and Multimode VCSEL Consumption Market Share by Region (2018-2029)

Figure 17. United States Single-mode and Multimode VCSEL Consumption (2018-2029) & (Units)

Figure 18. China Single-mode and Multimode VCSEL Consumption (2018-2029) & (Units)

Figure 19. Europe Single-mode and Multimode VCSEL Consumption (2018-2029) & (Units)

Figure 20. Japan Single-mode and Multimode VCSEL Consumption (2018-2029) & (Units)

Figure 21. South Korea Single-mode and Multimode VCSEL Consumption (2018-2029) & (Units)

Figure 22. ASEAN Single-mode and Multimode VCSEL Consumption (2018-2029) & (Units)

Figure 23. India Single-mode and Multimode VCSEL Consumption (2018-2029) & (Units)

Figure 24. Producer Shipments of Single-mode and Multimode VCSEL by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 25. Global Four-firm Concentration Ratios (CR4) for Single-mode and Multimode VCSEL Markets in 2022

Figure 26. Global Four-firm Concentration Ratios (CR8) for Single-mode and Multimode VCSEL Markets in 2022

Figure 27. United States VS China: Single-mode and Multimode VCSEL Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Single-mode and Multimode VCSEL Production Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States VS China: Single-mode and Multimode VCSEL Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 30. United States Based Manufacturers Single-mode and Multimode VCSEL Production Market Share 2022

Figure 31. China Based Manufacturers Single-mode and Multimode VCSEL Production Market Share 2022

Figure 32. Rest of World Based Manufacturers Single-mode and Multimode VCSEL Production Market Share 2022

Figure 33. World Single-mode and Multimode VCSEL Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 34. World Single-mode and Multimode VCSEL Production Value Market Share by Type in 2022

Figure 35. 760 nm

Figure 36. 780 nm

Figure 37. 850 nm

Figure 38. 940 nm

Figure 39. World Single-mode and Multimode VCSEL Production Market Share by Type (2018-2029)

Figure 40. World Single-mode and Multimode VCSEL Production Value Market Share by Type (2018-2029)

Figure 41. World Single-mode and Multimode VCSEL Average Price by Type (2018-2029) & (US\$/Unit)

Figure 42. World Single-mode and Multimode VCSEL Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 43. World Single-mode and Multimode VCSEL Production Value Market Share by Application in 2022

Figure 44. Optical Communication

Figure 45. Optical Storage

Figure 46. Optical Sensor

Figure 47. Others

Figure 48. World Single-mode and Multimode VCSEL Production Market Share by Application (2018-2029)

Figure 49. World Single-mode and Multimode VCSEL Production Value Market Share by Application (2018-2029)

Figure 50. World Single-mode and Multimode VCSEL Average Price by Application (2018-2029) & (US\$/Unit)

Figure 51. Single-mode and Multimode VCSEL Industry Chain

Figure 52. Single-mode and Multimode VCSEL Procurement Model

Figure 53. Single-mode and Multimode VCSEL Sales Model

Figure 54. Single-mode and Multimode VCSEL Sales Channels, Direct Sales, and Distribution

Figure 55. Methodology

Figure 56. Research Process and Data Source

I would like to order

Product name: Global Single-mode and Multimode VCSEL Supply, Demand and Key Producers, 2023-2029

Product link: <https://marketpublishers.com/r/G27EDCE18CC5EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G27EDCE18CC5EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

