

# Global Single-Mode Blue Laser Diode Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G981A8753FC3EN.html>

Date: June 2025

Pages: 94

Price: US\$ 3,480.00 (Single User License)

ID: G981A8753FC3EN

## Abstracts

According to our (Global Info Research) latest study, the global Single-Mode Blue Laser Diode market size was valued at US\$ 303 million in 2024 and is forecast to a readjusted size of USD 522 million by 2031 with a CAGR of 8.2% during review period.

Laser diodes are electrically pumped semiconductor lasers in which the gain is generated by an electrical current flowing through a p–n junction or (more frequently) a p–i–n structure. In such a heterostructure, electrons and holes can recombine, releasing the energy portions as photons. This process can be spontaneous, but can also be stimulated by incident photons, in effect leading to optical amplification, and with optical feedback in a laser resonator to laser oscillation. A blue laser diode emits electromagnetic radiation with a wavelength between 405 and 483 nanometres, which the human eye sees as blue or violet. A single mode blue laser diode has only one mode of light to propagate.

This report includes the Single-Mode Blue Laser Diode wavelength (400nm~483nm) and it don't includes the data of Blue Laser Diode module or Blue Diode Laser.

The industry is concentration, the key brand include Sony, Nichia, Sharp, Osram Opto Semiconductors, TOPTICA Photonics Inc, Egismos Technology Corporation and Ondax. These companies occupied more than 90% market share by revenue. Japan is the largest consumption place, with a consumption market share nearly 56%, Following Japan, Europe is the second largest consumption place with the consumption market share of 17%.

This report is a detailed and comprehensive analysis for global Single-Mode Blue Laser

Diode market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Single-Mode Blue Laser Diode market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Single-Mode Blue Laser Diode market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Single-Mode Blue Laser Diode market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Single-Mode Blue Laser Diode market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (USD/Pcs), 2020-2025

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Single-Mode Blue Laser Diode

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Single-Mode Blue Laser Diode market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nichia, Sharp, Sony, Osram Opto Semiconductors, TOPTICA Photonics Inc., Egismos Technology Corporation, Ondax, etc.

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

## Market Segmentation

Single-Mode Blue Laser Diode market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Below 30mW

30mW-60mW

60mW-90mW

90mW-200mW

More than 200mW

### Market segment by Application

Bio/Medical

Laser Projectors and Scanners

Blu-Ray Devices

Others

### Major players covered

Nichia

Sharp

Sony

Osram Opto Semiconductors

TOPTICA Photonics Inc.

Egismos Technology Corporation

Ondax

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Single-Mode Blue Laser Diode product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-Mode Blue Laser Diode, with price, sales quantity, revenue, and global market share of Single-Mode Blue Laser Diode from 2020 to 2025.

Chapter 3, the Single-Mode Blue Laser Diode competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-Mode Blue Laser Diode breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Single-Mode Blue Laser Diode market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Single-Mode Blue Laser Diode.

Chapter 14 and 15, to describe Single-Mode Blue Laser Diode sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

#### 1.1 Product Overview and Scope

#### 1.2 Market Estimation Caveats and Base Year

#### 1.3 Market Analysis by Type

##### 1.3.1 Overview: Global Single-Mode Blue Laser Diode Consumption Value by Type: 2020 Versus 2024 Versus 2031

##### 1.3.2 Below 30mW

##### 1.3.3 30mW-60mW

##### 1.3.4 60mW-90mW

##### 1.3.5 90mW-200mW

##### 1.3.6 More than 200mW

#### 1.4 Market Analysis by Application

##### 1.4.1 Overview: Global Single-Mode Blue Laser Diode Consumption Value by Application: 2020 Versus 2024 Versus 2031

##### 1.4.2 Bio/Medical

##### 1.4.3 Laser Projectors and Scanners

##### 1.4.4 Blu-Ray Devices

##### 1.4.5 Others

#### 1.5 Global Single-Mode Blue Laser Diode Market Size & Forecast

##### 1.5.1 Global Single-Mode Blue Laser Diode Consumption Value (2020 & 2024 & 2031)

##### 1.5.2 Global Single-Mode Blue Laser Diode Sales Quantity (2020-2031)

##### 1.5.3 Global Single-Mode Blue Laser Diode Average Price (2020-2031)

### 2 MANUFACTURERS PROFILES

#### 2.1 Nichia

##### 2.1.1 Nichia Details

##### 2.1.2 Nichia Major Business

##### 2.1.3 Nichia Single-Mode Blue Laser Diode Product and Services

##### 2.1.4 Nichia Single-Mode Blue Laser Diode Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

##### 2.1.5 Nichia Recent Developments/Updates

#### 2.2 Sharp

##### 2.2.1 Sharp Details

##### 2.2.2 Sharp Major Business

##### 2.2.3 Sharp Single-Mode Blue Laser Diode Product and Services

2.2.4 Sharp Single-Mode Blue Laser Diode Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Sharp Recent Developments/Updates

2.3 Sony

2.3.1 Sony Details

2.3.2 Sony Major Business

2.3.3 Sony Single-Mode Blue Laser Diode Product and Services

2.3.4 Sony Single-Mode Blue Laser Diode Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Sony Recent Developments/Updates

2.4 Osram Opto Semiconductors

2.4.1 Osram Opto Semiconductors Details

2.4.2 Osram Opto Semiconductors Major Business

2.4.3 Osram Opto Semiconductors Single-Mode Blue Laser Diode Product and Services

2.4.4 Osram Opto Semiconductors Single-Mode Blue Laser Diode Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Osram Opto Semiconductors Recent Developments/Updates

2.5 TOPTICA Photonics Inc.

2.5.1 TOPTICA Photonics Inc. Details

2.5.2 TOPTICA Photonics Inc. Major Business

2.5.3 TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Product and Services

2.5.4 TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 TOPTICA Photonics Inc. Recent Developments/Updates

2.6 Egismos Technology Corporation

2.6.1 Egismos Technology Corporation Details

2.6.2 Egismos Technology Corporation Major Business

2.6.3 Egismos Technology Corporation Single-Mode Blue Laser Diode Product and Services

2.6.4 Egismos Technology Corporation Single-Mode Blue Laser Diode Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Egismos Technology Corporation Recent Developments/Updates

2.7 Ondax

2.7.1 Ondax Details

2.7.2 Ondax Major Business

2.7.3 Ondax Single-Mode Blue Laser Diode Product and Services

2.7.4 Ondax Single-Mode Blue Laser Diode Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)



## 2.7.5 Ondax Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: SINGLE-MODE BLUE LASER DIODE BY MANUFACTURER**

- 3.1 Global Single-Mode Blue Laser Diode Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Single-Mode Blue Laser Diode Revenue by Manufacturer (2020-2025)
- 3.3 Global Single-Mode Blue Laser Diode Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
  - 3.4.1 Producer Shipments of Single-Mode Blue Laser Diode by Manufacturer Revenue (\$MM) and Market Share (%): 2024
  - 3.4.2 Top 3 Single-Mode Blue Laser Diode Manufacturer Market Share in 2024
  - 3.4.3 Top 6 Single-Mode Blue Laser Diode Manufacturer Market Share in 2024
- 3.5 Single-Mode Blue Laser Diode Market: Overall Company Footprint Analysis
  - 3.5.1 Single-Mode Blue Laser Diode Market: Region Footprint
  - 3.5.2 Single-Mode Blue Laser Diode Market: Company Product Type Footprint
  - 3.5.3 Single-Mode Blue Laser Diode Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Single-Mode Blue Laser Diode Market Size by Region
  - 4.1.1 Global Single-Mode Blue Laser Diode Sales Quantity by Region (2020-2031)
  - 4.1.2 Global Single-Mode Blue Laser Diode Consumption Value by Region (2020-2031)
  - 4.1.3 Global Single-Mode Blue Laser Diode Average Price by Region (2020-2031)
- 4.2 North America Single-Mode Blue Laser Diode Consumption Value (2020-2031)
- 4.3 Europe Single-Mode Blue Laser Diode Consumption Value (2020-2031)
- 4.4 Asia-Pacific Single-Mode Blue Laser Diode Consumption Value (2020-2031)
- 4.5 South America Single-Mode Blue Laser Diode Consumption Value (2020-2031)
- 4.6 Middle East & Africa Single-Mode Blue Laser Diode Consumption Value (2020-2031)

### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2031)
- 5.2 Global Single-Mode Blue Laser Diode Consumption Value by Type (2020-2031)
- 5.3 Global Single-Mode Blue Laser Diode Average Price by Type (2020-2031)



## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2031)

6.2 Global Single-Mode Blue Laser Diode Consumption Value by Application (2020-2031)

6.3 Global Single-Mode Blue Laser Diode Average Price by Application (2020-2031)

## **7 NORTH AMERICA**

7.1 North America Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2031)

7.2 North America Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2031)

7.3 North America Single-Mode Blue Laser Diode Market Size by Country

7.3.1 North America Single-Mode Blue Laser Diode Sales Quantity by Country (2020-2031)

7.3.2 North America Single-Mode Blue Laser Diode Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

## **8 EUROPE**

8.1 Europe Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2031)

8.2 Europe Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2031)

8.3 Europe Single-Mode Blue Laser Diode Market Size by Country

8.3.1 Europe Single-Mode Blue Laser Diode Sales Quantity by Country (2020-2031)

8.3.2 Europe Single-Mode Blue Laser Diode Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2031)

## 9.2 Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2031)

## 9.3 Asia-Pacific Single-Mode Blue Laser Diode Market Size by Region

### 9.3.1 Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity by Region (2020-2031)

### 9.3.2 Asia-Pacific Single-Mode Blue Laser Diode Consumption Value by Region (2020-2031)

#### 9.3.3 China Market Size and Forecast (2020-2031)

#### 9.3.4 Japan Market Size and Forecast (2020-2031)

#### 9.3.5 South Korea Market Size and Forecast (2020-2031)

#### 9.3.6 India Market Size and Forecast (2020-2031)

#### 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

#### 9.3.8 Australia Market Size and Forecast (2020-2031)

## 10 SOUTH AMERICA

### 10.1 South America Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2031)

### 10.2 South America Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2031)

### 10.3 South America Single-Mode Blue Laser Diode Market Size by Country

#### 10.3.1 South America Single-Mode Blue Laser Diode Sales Quantity by Country (2020-2031)

#### 10.3.2 South America Single-Mode Blue Laser Diode Consumption Value by Country (2020-2031)

##### 10.3.3 Brazil Market Size and Forecast (2020-2031)

##### 10.3.4 Argentina Market Size and Forecast (2020-2031)

## 11 MIDDLE EAST & AFRICA

### 11.1 Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2031)

### 11.2 Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2031)

### 11.3 Middle East & Africa Single-Mode Blue Laser Diode Market Size by Country

#### 11.3.1 Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity by Country (2020-2031)

#### 11.3.2 Middle East & Africa Single-Mode Blue Laser Diode Consumption Value by Country (2020-2031)

##### 11.3.3 Turkey Market Size and Forecast (2020-2031)

- 11.3.4 Egypt Market Size and Forecast (2020-2031)
- 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
- 11.3.6 South Africa Market Size and Forecast (2020-2031)

## **12 MARKET DYNAMICS**

- 12.1 Single-Mode Blue Laser Diode Market Drivers
- 12.2 Single-Mode Blue Laser Diode Market Restraints
- 12.3 Single-Mode Blue Laser Diode Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Single-Mode Blue Laser Diode and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Single-Mode Blue Laser Diode
- 13.3 Single-Mode Blue Laser Diode Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Single-Mode Blue Laser Diode Typical Distributors
- 14.3 Single-Mode Blue Laser Diode Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Single-Mode Blue Laser Diode Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Single-Mode Blue Laser Diode Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Nichia Basic Information, Manufacturing Base and Competitors

Table 4. Nichia Major Business

Table 5. Nichia Single-Mode Blue Laser Diode Product and Services

Table 6. Nichia Single-Mode Blue Laser Diode Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Nichia Recent Developments/Updates

Table 8. Sharp Basic Information, Manufacturing Base and Competitors

Table 9. Sharp Major Business

Table 10. Sharp Single-Mode Blue Laser Diode Product and Services

Table 11. Sharp Single-Mode Blue Laser Diode Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Sharp Recent Developments/Updates

Table 13. Sony Basic Information, Manufacturing Base and Competitors

Table 14. Sony Major Business

Table 15. Sony Single-Mode Blue Laser Diode Product and Services

Table 16. Sony Single-Mode Blue Laser Diode Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Sony Recent Developments/Updates

Table 18. Osram Opto Semiconductors Basic Information, Manufacturing Base and Competitors

Table 19. Osram Opto Semiconductors Major Business

Table 20. Osram Opto Semiconductors Single-Mode Blue Laser Diode Product and Services

Table 21. Osram Opto Semiconductors Single-Mode Blue Laser Diode Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Osram Opto Semiconductors Recent Developments/Updates

Table 23. TOPTICA Photonics Inc. Basic Information, Manufacturing Base and Competitors

Table 24. TOPTICA Photonics Inc. Major Business

Table 25. TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Product and Services

Table 26. TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. TOPTICA Photonics Inc. Recent Developments/Updates

Table 28. Egismos Technology Corporation Basic Information, Manufacturing Base and Competitors

Table 29. Egismos Technology Corporation Major Business

Table 30. Egismos Technology Corporation Single-Mode Blue Laser Diode Product and Services

Table 31. Egismos Technology Corporation Single-Mode Blue Laser Diode Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Egismos Technology Corporation Recent Developments/Updates

Table 33. Ondax Basic Information, Manufacturing Base and Competitors

Table 34. Ondax Major Business

Table 35. Ondax Single-Mode Blue Laser Diode Product and Services

Table 36. Ondax Single-Mode Blue Laser Diode Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Ondax Recent Developments/Updates

Table 38. Global Single-Mode Blue Laser Diode Sales Quantity by Manufacturer (2020-2025) & (K Pcs)

Table 39. Global Single-Mode Blue Laser Diode Revenue by Manufacturer (2020-2025) & (USD Million)

Table 40. Global Single-Mode Blue Laser Diode Average Price by Manufacturer (2020-2025) & (USD/Pcs)

Table 41. Market Position of Manufacturers in Single-Mode Blue Laser Diode, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 42. Head Office and Single-Mode Blue Laser Diode Production Site of Key Manufacturer

Table 43. Single-Mode Blue Laser Diode Market: Company Product Type Footprint

Table 44. Single-Mode Blue Laser Diode Market: Company Product Application Footprint

Table 45. Single-Mode Blue Laser Diode New Market Entrants and Barriers to Market Entry

Table 46. Single-Mode Blue Laser Diode Mergers, Acquisition, Agreements, and Collaborations

Table 47. Global Single-Mode Blue Laser Diode Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 48. Global Single-Mode Blue Laser Diode Sales Quantity by Region (2020-2025)

& (K Pcs)

Table 49. Global Single-Mode Blue Laser Diode Sales Quantity by Region (2026-2031)

& (K Pcs)

Table 50. Global Single-Mode Blue Laser Diode Consumption Value by Region  
(2020-2025) & (USD Million)

Table 51. Global Single-Mode Blue Laser Diode Consumption Value by Region  
(2026-2031) & (USD Million)

Table 52. Global Single-Mode Blue Laser Diode Average Price by Region (2020-2025)  
& (USD/Pcs)

Table 53. Global Single-Mode Blue Laser Diode Average Price by Region (2026-2031)  
& (USD/Pcs)

Table 54. Global Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2025) &  
(K Pcs)

Table 55. Global Single-Mode Blue Laser Diode Sales Quantity by Type (2026-2031) &  
(K Pcs)

Table 56. Global Single-Mode Blue Laser Diode Consumption Value by Type  
(2020-2025) & (USD Million)

Table 57. Global Single-Mode Blue Laser Diode Consumption Value by Type  
(2026-2031) & (USD Million)

Table 58. Global Single-Mode Blue Laser Diode Average Price by Type (2020-2025) &  
(USD/Pcs)

Table 59. Global Single-Mode Blue Laser Diode Average Price by Type (2026-2031) &  
(USD/Pcs)

Table 60. Global Single-Mode Blue Laser Diode Sales Quantity by Application  
(2020-2025) & (K Pcs)

Table 61. Global Single-Mode Blue Laser Diode Sales Quantity by Application  
(2026-2031) & (K Pcs)

Table 62. Global Single-Mode Blue Laser Diode Consumption Value by Application  
(2020-2025) & (USD Million)

Table 63. Global Single-Mode Blue Laser Diode Consumption Value by Application  
(2026-2031) & (USD Million)

Table 64. Global Single-Mode Blue Laser Diode Average Price by Application  
(2020-2025) & (USD/Pcs)

Table 65. Global Single-Mode Blue Laser Diode Average Price by Application  
(2026-2031) & (USD/Pcs)

Table 66. North America Single-Mode Blue Laser Diode Sales Quantity by Type  
(2020-2025) & (K Pcs)

Table 67. North America Single-Mode Blue Laser Diode Sales Quantity by Type  
(2026-2031) & (K Pcs)



Table 68. North America Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2025) & (K Pcs)

Table 69. North America Single-Mode Blue Laser Diode Sales Quantity by Application (2026-2031) & (K Pcs)

Table 70. North America Single-Mode Blue Laser Diode Sales Quantity by Country (2020-2025) & (K Pcs)

Table 71. North America Single-Mode Blue Laser Diode Sales Quantity by Country (2026-2031) & (K Pcs)

Table 72. North America Single-Mode Blue Laser Diode Consumption Value by Country (2020-2025) & (USD Million)

Table 73. North America Single-Mode Blue Laser Diode Consumption Value by Country (2026-2031) & (USD Million)

Table 74. Europe Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2025) & (K Pcs)

Table 75. Europe Single-Mode Blue Laser Diode Sales Quantity by Type (2026-2031) & (K Pcs)

Table 76. Europe Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2025) & (K Pcs)

Table 77. Europe Single-Mode Blue Laser Diode Sales Quantity by Application (2026-2031) & (K Pcs)

Table 78. Europe Single-Mode Blue Laser Diode Sales Quantity by Country (2020-2025) & (K Pcs)

Table 79. Europe Single-Mode Blue Laser Diode Sales Quantity by Country (2026-2031) & (K Pcs)

Table 80. Europe Single-Mode Blue Laser Diode Consumption Value by Country (2020-2025) & (USD Million)

Table 81. Europe Single-Mode Blue Laser Diode Consumption Value by Country (2026-2031) & (USD Million)

Table 82. Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2025) & (K Pcs)

Table 83. Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity by Type (2026-2031) & (K Pcs)

Table 84. Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2025) & (K Pcs)

Table 85. Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity by Application (2026-2031) & (K Pcs)

Table 86. Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity by Region (2020-2025) & (K Pcs)

Table 87. Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity by Region



(2026-2031) & (K Pcs)

Table 88. Asia-Pacific Single-Mode Blue Laser Diode Consumption Value by Region (2020-2025) & (USD Million)

Table 89. Asia-Pacific Single-Mode Blue Laser Diode Consumption Value by Region (2026-2031) & (USD Million)

Table 90. South America Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2025) & (K Pcs)

Table 91. South America Single-Mode Blue Laser Diode Sales Quantity by Type (2026-2031) & (K Pcs)

Table 92. South America Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2025) & (K Pcs)

Table 93. South America Single-Mode Blue Laser Diode Sales Quantity by Application (2026-2031) & (K Pcs)

Table 94. South America Single-Mode Blue Laser Diode Sales Quantity by Country (2020-2025) & (K Pcs)

Table 95. South America Single-Mode Blue Laser Diode Sales Quantity by Country (2026-2031) & (K Pcs)

Table 96. South America Single-Mode Blue Laser Diode Consumption Value by Country (2020-2025) & (USD Million)

Table 97. South America Single-Mode Blue Laser Diode Consumption Value by Country (2026-2031) & (USD Million)

Table 98. Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity by Type (2020-2025) & (K Pcs)

Table 99. Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity by Type (2026-2031) & (K Pcs)

Table 100. Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity by Application (2020-2025) & (K Pcs)

Table 101. Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity by Application (2026-2031) & (K Pcs)

Table 102. Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity by Country (2020-2025) & (K Pcs)

Table 103. Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity by Country (2026-2031) & (K Pcs)

Table 104. Middle East & Africa Single-Mode Blue Laser Diode Consumption Value by Country (2020-2025) & (USD Million)

Table 105. Middle East & Africa Single-Mode Blue Laser Diode Consumption Value by Country (2026-2031) & (USD Million)

Table 106. Single-Mode Blue Laser Diode Raw Material

Table 107. Key Manufacturers of Single-Mode Blue Laser Diode Raw Materials

Table 108. Single-Mode Blue Laser Diode Typical Distributors

Table 109. Single-Mode Blue Laser Diode Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Single-Mode Blue Laser Diode Picture
- Figure 2. Global Single-Mode Blue Laser Diode Revenue by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global Single-Mode Blue Laser Diode Revenue Market Share by Type in 2024
- Figure 4. Below 30mW Examples
- Figure 5. 30mW-60mW Examples
- Figure 6. 60mW-90mW Examples
- Figure 7. 90mW-200mW Examples
- Figure 8. More than 200mW Examples
- Figure 9. Global Single-Mode Blue Laser Diode Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 10. Global Single-Mode Blue Laser Diode Revenue Market Share by Application in 2024
- Figure 11. Bio/Medical Examples
- Figure 12. Laser Projectors and Scanners Examples
- Figure 13. Blu-Ray Devices Examples
- Figure 14. Others Examples
- Figure 15. Global Single-Mode Blue Laser Diode Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 16. Global Single-Mode Blue Laser Diode Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 17. Global Single-Mode Blue Laser Diode Sales Quantity (2020-2031) & (K Pcs)
- Figure 18. Global Single-Mode Blue Laser Diode Price (2020-2031) & (USD/Pcs)
- Figure 19. Global Single-Mode Blue Laser Diode Sales Quantity Market Share by Manufacturer in 2024
- Figure 20. Global Single-Mode Blue Laser Diode Revenue Market Share by Manufacturer in 2024
- Figure 21. Producer Shipments of Single-Mode Blue Laser Diode by Manufacturer Sales (\$MM) and Market Share (%): 2024
- Figure 22. Top 3 Single-Mode Blue Laser Diode Manufacturer (Revenue) Market Share in 2024
- Figure 23. Top 6 Single-Mode Blue Laser Diode Manufacturer (Revenue) Market Share in 2024
- Figure 24. Global Single-Mode Blue Laser Diode Sales Quantity Market Share by Region (2020-2031)

Figure 25. Global Single-Mode Blue Laser Diode Consumption Value Market Share by Region (2020-2031)

Figure 26. North America Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 27. Europe Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 28. Asia-Pacific Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 29. South America Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 30. Middle East & Africa Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 31. Global Single-Mode Blue Laser Diode Sales Quantity Market Share by Type (2020-2031)

Figure 32. Global Single-Mode Blue Laser Diode Consumption Value Market Share by Type (2020-2031)

Figure 33. Global Single-Mode Blue Laser Diode Average Price by Type (2020-2031) & (USD/Pcs)

Figure 34. Global Single-Mode Blue Laser Diode Sales Quantity Market Share by Application (2020-2031)

Figure 35. Global Single-Mode Blue Laser Diode Revenue Market Share by Application (2020-2031)

Figure 36. Global Single-Mode Blue Laser Diode Average Price by Application (2020-2031) & (USD/Pcs)

Figure 37. North America Single-Mode Blue Laser Diode Sales Quantity Market Share by Type (2020-2031)

Figure 38. North America Single-Mode Blue Laser Diode Sales Quantity Market Share by Application (2020-2031)

Figure 39. North America Single-Mode Blue Laser Diode Sales Quantity Market Share by Country (2020-2031)

Figure 40. North America Single-Mode Blue Laser Diode Consumption Value Market Share by Country (2020-2031)

Figure 41. United States Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 42. Canada Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 43. Mexico Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 44. Europe Single-Mode Blue Laser Diode Sales Quantity Market Share by Type

(2020-2031)

Figure 45. Europe Single-Mode Blue Laser Diode Sales Quantity Market Share by Application (2020-2031)

Figure 46. Europe Single-Mode Blue Laser Diode Sales Quantity Market Share by Country (2020-2031)

Figure 47. Europe Single-Mode Blue Laser Diode Consumption Value Market Share by Country (2020-2031)

Figure 48. Germany Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 49. France Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 50. United Kingdom Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 51. Russia Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 52. Italy Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 53. Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity Market Share by Type (2020-2031)

Figure 54. Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity Market Share by Application (2020-2031)

Figure 55. Asia-Pacific Single-Mode Blue Laser Diode Sales Quantity Market Share by Region (2020-2031)

Figure 56. Asia-Pacific Single-Mode Blue Laser Diode Consumption Value Market Share by Region (2020-2031)

Figure 57. China Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 58. Japan Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 59. South Korea Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 60. India Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 61. Southeast Asia Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 62. Australia Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 63. South America Single-Mode Blue Laser Diode Sales Quantity Market Share by Type (2020-2031)

Figure 64. South America Single-Mode Blue Laser Diode Sales Quantity Market Share by Application (2020-2031)

Figure 65. South America Single-Mode Blue Laser Diode Sales Quantity Market Share by Country (2020-2031)

Figure 66. South America Single-Mode Blue Laser Diode Consumption Value Market Share by Country (2020-2031)

Figure 67. Brazil Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 68. Argentina Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 69. Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity Market Share by Type (2020-2031)

Figure 70. Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity Market Share by Application (2020-2031)

Figure 71. Middle East & Africa Single-Mode Blue Laser Diode Sales Quantity Market Share by Country (2020-2031)

Figure 72. Middle East & Africa Single-Mode Blue Laser Diode Consumption Value Market Share by Country (2020-2031)

Figure 73. Turkey Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 74. Egypt Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 75. Saudi Arabia Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 76. South Africa Single-Mode Blue Laser Diode Consumption Value (2020-2031) & (USD Million)

Figure 77. Single-Mode Blue Laser Diode Market Drivers

Figure 78. Single-Mode Blue Laser Diode Market Restraints

Figure 79. Single-Mode Blue Laser Diode Market Trends

Figure 80. Porters Five Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of Single-Mode Blue Laser Diode in 2024

Figure 82. Manufacturing Process Analysis of Single-Mode Blue Laser Diode

Figure 83. Single-Mode Blue Laser Diode Industrial Chain

Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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