

# Global Single-Mode Blue Laser Diode Market Size, Manufacturers, Opportunities and Forecast to 2030

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## Abstracts

### Summary

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.

According to APO Research, The global Single-Mode Blue Laser Diode market was estimated at US\$ million in 2023 and is projected to reach a revised size of US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

North American market for Single-Mode Blue Laser Diode is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Single-Mode Blue Laser Diode is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Single-Mode Blue Laser Diode is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Single-Mode Blue Laser Diode include Nichia, Sharp, Sony, Osram Opto Semiconductors, TOPTICA Photonics Inc., Egismos Technology Corporation and Ondax, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for Single-Mode Blue Laser Diode, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Single-Mode Blue Laser Diode.

The Single-Mode Blue Laser Diode market size, estimations, and forecasts are provided in terms of sales volume (K Pcs) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Single-Mode Blue Laser Diode market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

## Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Nichia

Sharp

Sony

Osram Opto Semiconductors

TOPTICA Photonics Inc.

Egismos Technology Corporation

Ondax

#### Single-Mode Blue Laser Diode segment by Type

Below 30mW

30mW-60mW

60mW-90mW

90mW-200mW

More than 200mW

#### Single-Mode Blue Laser Diode segment by Application

Bio/Medical

Laser Projectors and Scanners

Blu-Ray Devices

Others

## Single-Mode Blue Laser Diode Segment by Region

### North America

U.S.

Canada

### Europe

Germany

France

U.K.

Italy

Russia

### Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

## Latin America

Mexico

Brazil

Argentina

## Middle East & Africa

Turkey

Saudi Arabia

UAE

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

## Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Single-Mode Blue Laser Diode market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Single-Mode Blue Laser Diode and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market
5. This report helps stakeholders to gain insights into which regions to target globally
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Single-Mode Blue Laser Diode.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Introduces the study scope of this report, executive summary of market segments by type, market size segments for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: Detailed analysis of Single-Mode Blue Laser Diode manufacturers competitive landscape, price, sales, revenue, market share and ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4: Sales, revenue of Single-Mode Blue Laser Diode in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the future development prospects, and market space in the world.

Chapter 5: Introduces market segments by application, market size segment for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main

companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, Latin America, Middle East & Africa, sales and revenue by country.

Chapter 12: Analysis of industrial chain, key raw materials, manufacturing cost, and market dynamics.

Chapter 13: Concluding Insights of the report.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
  - 1.2.1 Global Single-Mode Blue Laser Diode Market Size Estimates and Forecasts (2019-2030)
  - 1.2.2 Global Single-Mode Blue Laser Diode Sales Estimates and Forecasts (2019-2030)
- 1.3 Single-Mode Blue Laser Diode Market by Type
  - 1.3.1 Below 30mW
  - 1.3.2 30mW-60mW
  - 1.3.3 60mW-90mW
  - 1.3.4 90mW-200mW
  - 1.3.5 More than 200mW
- 1.4 Global Single-Mode Blue Laser Diode Market Size by Type
  - 1.4.1 Global Single-Mode Blue Laser Diode Market Size Overview by Type (2019-2030)
  - 1.4.2 Global Single-Mode Blue Laser Diode Historic Market Size Review by Type (2019-2024)
  - 1.4.3 Global Single-Mode Blue Laser Diode Forecasted Market Size by Type (2025-2030)
- 1.5 Key Regions Market Size by Type
  - 1.5.1 North America Single-Mode Blue Laser Diode Sales Breakdown by Type (2019-2024)
  - 1.5.2 Europe Single-Mode Blue Laser Diode Sales Breakdown by Type (2019-2024)
  - 1.5.3 Asia-Pacific Single-Mode Blue Laser Diode Sales Breakdown by Type (2019-2024)
  - 1.5.4 Latin America Single-Mode Blue Laser Diode Sales Breakdown by Type (2019-2024)
  - 1.5.5 Middle East and Africa Single-Mode Blue Laser Diode Sales Breakdown by Type (2019-2024)

### 2 GLOBAL MARKET DYNAMICS

- 2.1 Single-Mode Blue Laser Diode Industry Trends
- 2.2 Single-Mode Blue Laser Diode Industry Drivers
- 2.3 Single-Mode Blue Laser Diode Industry Opportunities and Challenges



## 2.4 Single-Mode Blue Laser Diode Industry Restraints

### **3 MARKET COMPETITIVE LANDSCAPE BY COMPANY**

#### 3.1 Global Top Players by Single-Mode Blue Laser Diode Revenue (2019-2024)

#### 3.2 Global Top Players by Single-Mode Blue Laser Diode Sales (2019-2024)

#### 3.3 Global Top Players by Single-Mode Blue Laser Diode Price (2019-2024)

#### 3.4 Global Single-Mode Blue Laser Diode Industry Company Ranking, 2022 VS 2023 VS 2024

#### 3.5 Global Single-Mode Blue Laser Diode Key Company Manufacturing Sites & Headquarters

#### 3.6 Global Single-Mode Blue Laser Diode Company, Product Type & Application

#### 3.7 Global Single-Mode Blue Laser Diode Company Commercialization Time

#### 3.8 Market Competitive Analysis

##### 3.8.1 Global Single-Mode Blue Laser Diode Market CR5 and HHI

##### 3.8.2 Global Top 5 and 10 Single-Mode Blue Laser Diode Players Market Share by Revenue in 2023

##### 3.8.3 2023 Single-Mode Blue Laser Diode Tier 1, Tier 2, and Tier

### **4 SINGLE-MODE BLUE LASER DIODE REGIONAL STATUS AND OUTLOOK**

#### 4.1 Global Single-Mode Blue Laser Diode Market Size and CAGR by Region: 2019 VS 2023 VS 2030

#### 4.2 Global Single-Mode Blue Laser Diode Historic Market Size by Region

##### 4.2.1 Global Single-Mode Blue Laser Diode Sales in Volume by Region (2019-2024)

##### 4.2.2 Global Single-Mode Blue Laser Diode Sales in Value by Region (2019-2024)

##### 4.2.3 Global Single-Mode Blue Laser Diode Sales (Volume & Value), Price and Gross Margin (2019-2024)

#### 4.3 Global Single-Mode Blue Laser Diode Forecasted Market Size by Region

##### 4.3.1 Global Single-Mode Blue Laser Diode Sales in Volume by Region (2025-2030)

##### 4.3.2 Global Single-Mode Blue Laser Diode Sales in Value by Region (2025-2030)

##### 4.3.3 Global Single-Mode Blue Laser Diode Sales (Volume & Value), Price and Gross Margin (2025-2030)

### **5 SINGLE-MODE BLUE LASER DIODE BY APPLICATION**

#### 5.1 Single-Mode Blue Laser Diode Market by Application

##### 5.1.1 Bio/Medical

##### 5.1.2 Laser Projectors and Scanners

### 5.1.3 Blu-Ray Devices

### 5.1.4 Others

## 5.2 Global Single-Mode Blue Laser Diode Market Size by Application

### 5.2.1 Global Single-Mode Blue Laser Diode Market Size Overview by Application (2019-2030)

### 5.2.2 Global Single-Mode Blue Laser Diode Historic Market Size Review by Application (2019-2024)

### 5.2.3 Global Single-Mode Blue Laser Diode Forecasted Market Size by Application (2025-2030)

## 5.3 Key Regions Market Size by Application

### 5.3.1 North America Single-Mode Blue Laser Diode Sales Breakdown by Application (2019-2024)

### 5.3.2 Europe Single-Mode Blue Laser Diode Sales Breakdown by Application (2019-2024)

### 5.3.3 Asia-Pacific Single-Mode Blue Laser Diode Sales Breakdown by Application (2019-2024)

### 5.3.4 Latin America Single-Mode Blue Laser Diode Sales Breakdown by Application (2019-2024)

### 5.3.5 Middle East and Africa Single-Mode Blue Laser Diode Sales Breakdown by Application (2019-2024)

## 6 COMPANY PROFILES

### 6.1 Nichia

#### 6.1.1 Nichia Company Information

#### 6.1.2 Nichia Business Overview

#### 6.1.3 Nichia Single-Mode Blue Laser Diode Sales, Revenue and Gross Margin (2019-2024)

#### 6.1.4 Nichia Single-Mode Blue Laser Diode Product Portfolio

#### 6.1.5 Nichia Recent Developments

### 6.2 Sharp

#### 6.2.1 Sharp Company Information

#### 6.2.2 Sharp Business Overview

#### 6.2.3 Sharp Single-Mode Blue Laser Diode Sales, Revenue and Gross Margin (2019-2024)

#### 6.2.4 Sharp Single-Mode Blue Laser Diode Product Portfolio

#### 6.2.5 Sharp Recent Developments

### 6.3 Sony

#### 6.3.1 Sony Company Information

- 6.3.2 Sony Business Overview
- 6.3.3 Sony Single-Mode Blue Laser Diode Sales, Revenue and Gross Margin (2019-2024)
- 6.3.4 Sony Single-Mode Blue Laser Diode Product Portfolio
- 6.3.5 Sony Recent Developments
- 6.4 Osram Opto Semiconductors
  - 6.4.1 Osram Opto Semiconductors Company Information
  - 6.4.2 Osram Opto Semiconductors Business Overview
  - 6.4.3 Osram Opto Semiconductors Single-Mode Blue Laser Diode Sales, Revenue and Gross Margin (2019-2024)
  - 6.4.4 Osram Opto Semiconductors Single-Mode Blue Laser Diode Product Portfolio
  - 6.4.5 Osram Opto Semiconductors Recent Developments
- 6.5 TOPTICA Photonics Inc.
  - 6.5.1 TOPTICA Photonics Inc. Company Information
  - 6.5.2 TOPTICA Photonics Inc. Business Overview
  - 6.5.3 TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Sales, Revenue and Gross Margin (2019-2024)
  - 6.5.4 TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Product Portfolio
  - 6.5.5 TOPTICA Photonics Inc. Recent Developments
- 6.6 Egismos Technology Corporation
  - 6.6.1 Egismos Technology Corporation Company Information
  - 6.6.2 Egismos Technology Corporation Business Overview
  - 6.6.3 Egismos Technology Corporation Single-Mode Blue Laser Diode Sales, Revenue and Gross Margin (2019-2024)
  - 6.6.4 Egismos Technology Corporation Single-Mode Blue Laser Diode Product Portfolio
  - 6.6.5 Egismos Technology Corporation Recent Developments
- 6.7 Ondax
  - 6.7.1 Ondax Company Information
  - 6.7.2 Ondax Business Overview
  - 6.7.3 Ondax Single-Mode Blue Laser Diode Sales, Revenue and Gross Margin (2019-2024)
  - 6.7.4 Ondax Single-Mode Blue Laser Diode Product Portfolio
  - 6.7.5 Ondax Recent Developments

## **7 NORTH AMERICA BY COUNTRY**

- 7.1 North America Single-Mode Blue Laser Diode Sales by Country
  - 7.1.1 North America Single-Mode Blue Laser Diode Sales Growth Rate (CAGR) by

Country: 2019 VS 2023 VS 2030

7.1.2 North America Single-Mode Blue Laser Diode Sales by Country (2019-2024)

7.1.3 North America Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030)

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

7.2.1 North America Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.2.2 North America Single-Mode Blue Laser Diode Market Size by Country (2019-2024)

7.2.3 North America Single-Mode Blue Laser Diode Market Size Forecast by Country (2025-2030)

## **8 EUROPE BY COUNTRY**

8.1 Europe Single-Mode Blue Laser Diode Sales by Country

8.1.1 Europe Single-Mode Blue Laser Diode Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.1.2 Europe Single-Mode Blue Laser Diode Sales by Country (2019-2024)

8.1.3 Europe Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030)

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

8.2.1 Europe Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.2.2 Europe Single-Mode Blue Laser Diode Market Size by Country (2019-2024)

8.2.3 Europe Single-Mode Blue Laser Diode Market Size Forecast by Country (2025-2030)

## **9 ASIA-PACIFIC BY COUNTRY**

9.1 Asia-Pacific Single-Mode Blue Laser Diode Sales by Country

9.1.1 Asia-Pacific Single-Mode Blue Laser Diode Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.1.2 Asia-Pacific Single-Mode Blue Laser Diode Sales by Country (2019-2024)

9.1.3 Asia-Pacific Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030)

9.2 Asia-Pacific Single-Mode Blue Laser Diode Market Size by Country

9.2.1 Asia-Pacific Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.2.2 Asia-Pacific Single-Mode Blue Laser Diode Market Size by Country (2019-2024)

9.2.3 Asia-Pacific Single-Mode Blue Laser Diode Market Size Forecast by Country

(2025-2030)

## **10 LATIN AMERICA BY COUNTRY**

### 10.1 Latin America Single-Mode Blue Laser Diode Sales by Country

10.1.1 Latin America Single-Mode Blue Laser Diode Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.1.2 Latin America Single-Mode Blue Laser Diode Sales by Country (2019-2024)

10.1.3 Latin America Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030)

### 10.2 Latin America Single-Mode Blue Laser Diode Market Size by Country

10.2.1 Latin America Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.2.2 Latin America Single-Mode Blue Laser Diode Market Size by Country (2019-2024)

10.2.3 Latin America Single-Mode Blue Laser Diode Market Size Forecast by Country (2025-2030)

## **11 MIDDLE EAST AND AFRICA BY COUNTRY**

### 11.1 Middle East and Africa Single-Mode Blue Laser Diode Sales by Country

11.1.1 Middle East and Africa Single-Mode Blue Laser Diode Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.1.2 Middle East and Africa Single-Mode Blue Laser Diode Sales by Country (2019-2024)

11.1.3 Middle East and Africa Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030)

### 11.2 Middle East and Africa Single-Mode Blue Laser Diode Market Size by Country

11.2.1 Middle East and Africa Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.2.2 Middle East and Africa Single-Mode Blue Laser Diode Market Size by Country (2019-2024)

11.2.3 Middle East and Africa Single-Mode Blue Laser Diode Market Size Forecast by Country (2025-2030)

## **12 VALUE CHAIN AND SALES CHANNELS ANALYSIS**

### 12.1 Single-Mode Blue Laser Diode Value Chain Analysis

12.1.1 Single-Mode Blue Laser Diode Key Raw Materials

- 12.1.2 Key Raw Materials Price
- 12.1.3 Raw Materials Key Suppliers
- 12.1.4 Manufacturing Cost Structure
- 12.1.5 Single-Mode Blue Laser Diode Production Mode & Process
- 12.2 Single-Mode Blue Laser Diode Sales Channels Analysis
  - 12.2.1 Direct Comparison with Distribution Share
  - 12.2.2 Single-Mode Blue Laser Diode Distributors
  - 12.2.3 Single-Mode Blue Laser Diode Customers

## **13 CONCLUDING INSIGHTS**

## **14 APPENDIX**

- 14.1 Reasons for Doing This Study
- 14.2 Research Methodology
- 14.3 Research Process
- 14.4 Authors List of This Report
- 14.5 Data Source
  - 14.5.1 Secondary Sources
  - 14.5.2 Primary Sources
- 14.6 Disclaimer



## List Of Tables

### LIST OF TABLES

Table 1. Major Company of Below 30mW

Table 2. Major Company of 30mW-60mW

Table 3. Major Company of 60mW-90mW

Table 4. Major Company of 90mW-200mW

Table 5. Major Company of More than 200mW

Table 6. Global Single-Mode Blue Laser Diode Sales by Type (2019 VS 2023 VS 2030) & (US\$ Million)

Table 7. Global Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (K Pcs)

Table 8. Global Single-Mode Blue Laser Diode Sales Market Share in Volume by Type (2019-2024)

Table 9. Global Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (US\$ Million)

Table 10. Global Single-Mode Blue Laser Diode Sales Market Share in Value by Type (2019-2024)

Table 11. Global Single-Mode Blue Laser Diode Price by Type (2019-2024) & (USD/Pcs)

Table 12. Global Single-Mode Blue Laser Diode Sales by Type (2025-2030) & (K Pcs)

Table 13. Global Single-Mode Blue Laser Diode Sales Market Share in Volume by Type (2025-2030)

Table 14. Global Single-Mode Blue Laser Diode Sales by Type (2025-2030) & (US\$ Million)

Table 15. Global Single-Mode Blue Laser Diode Sales Market Share in Value by Type (2025-2030)

Table 16. Global Single-Mode Blue Laser Diode Price by Type (2025-2030) & (USD/Pcs)

Table 17. North America Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (K Pcs)

Table 18. North America Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (US\$ Million)

Table 19. Europe Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (K Pcs)

Table 20. Europe Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (US\$ Million)

Table 21. Asia-Pacific Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (K Pcs)

Table 22. Asia-Pacific Single-Mode Blue Laser Diode Sales by Type (2019-2024) &

(US\$ Million)

Table 23. Latin America Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (K Pcs)

Table 24. Latin America Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (US\$ Million)

Table 25. Middle East and Africa Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (K Pcs)

Table 26. Middle East and Africa Single-Mode Blue Laser Diode Sales by Type (2019-2024) & (US\$ Million)

Table 27. Single-Mode Blue Laser Diode Industry Trends

Table 28. Single-Mode Blue Laser Diode Industry Drivers

Table 29. Single-Mode Blue Laser Diode Industry Opportunities and Challenges

Table 30. Single-Mode Blue Laser Diode Industry Restraints

Table 31. Global Single-Mode Blue Laser Diode Sales Revenue by Company (US\$ Million) & (2019-2024)

Table 32. Global Single-Mode Blue Laser Diode Revenue Market Share by Company (2019-2024)

Table 33. Global Single-Mode Blue Laser Diode Sales by Company (2019-2024) & (K Pcs)

Table 34. Global Single-Mode Blue Laser Diode Sales Share by Company (2019-2024)

Table 35. Global Single-Mode Blue Laser Diode Market Price by Company (2019-2024) & (USD/Pcs)

Table 36. Global Single-Mode Blue Laser Diode Industry Company Ranking, 2022 VS 2023 VS 2024

Table 37. Global Single-Mode Blue Laser Diode Key Company Manufacturing Sites & Headquarters

Table 38. Global Single-Mode Blue Laser Diode Company, Product Type & Application

Table 39. Global Single-Mode Blue Laser Diode Company Commercialization Time

Table 40. Global Company Market Concentration Ratio (CR5 and HHI)

Table 41. Global Single-Mode Blue Laser Diode by Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue of 2023)

Table 42. Global Single-Mode Blue Laser Diode Market Size Comparison by Region (US\$ Million): 2019 VS 2023 VS 2030

Table 43. Global Single-Mode Blue Laser Diode Sales by Region (2019-2024) & (K Pcs)

Table 44. Global Single-Mode Blue Laser Diode Sales Market Share in Volume by Region (2019-2024)

Table 45. Global Single-Mode Blue Laser Diode Sales by Region (2019-2024) & (US\$ Million)

Table 46. Global Single-Mode Blue Laser Diode Sales Market Share in Value by Region



(2019-2024)

Table 47. Global Single-Mode Blue Laser Diode Sales (K Pcs), Value (US\$ Million), Price (USD/Pcs) and Gross Margin (2019-2024)

Table 48. Global Single-Mode Blue Laser Diode Sales by Region (2025-2030) & (K Pcs)

Table 49. Global Single-Mode Blue Laser Diode Sales Market Share in Volume by Region (2025-2030)

Table 50. Global Single-Mode Blue Laser Diode Sales by Region (2025-2030) & (US\$ Million)

Table 51. Global Single-Mode Blue Laser Diode Sales Market Share in Value by Region (2025-2030)

Table 52. Global Single-Mode Blue Laser Diode Sales (K Pcs), Value (US\$ Million), Price (USD/Pcs) and Gross Margin (2025-2030)

Table 53. Global Single-Mode Blue Laser Diode Sales by Application (2019 VS 2023 VS 2030) & (US\$ Million)

Table 54. Global Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (K Pcs)

Table 55. Global Single-Mode Blue Laser Diode Sales Market Share in Volume by Application (2019-2024)

Table 56. Global Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (US\$ Million)

Table 57. Global Single-Mode Blue Laser Diode Sales Market Share in Value by Application (2019-2024)

Table 58. Global Single-Mode Blue Laser Diode Price by Application (2019-2024) & (USD/Pcs)

Table 59. Global Single-Mode Blue Laser Diode Sales by Application (2025-2030) & (K Pcs)

Table 60. Global Single-Mode Blue Laser Diode Sales Market Share in Volume by Application (2025-2030)

Table 61. Global Single-Mode Blue Laser Diode Sales by Application (2025-2030) & (US\$ Million)

Table 62. Global Single-Mode Blue Laser Diode Sales Market Share in Value by Application (2025-2030)

Table 63. Global Single-Mode Blue Laser Diode Price by Application (2025-2030) & (USD/Pcs)

Table 64. North America Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (K Pcs)

Table 65. North America Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (US\$ Million)

Table 66. Europe Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (K

Pcs)

Table 67. Europe Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (US\$ Million)

Table 68. Asia-Pacific Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (K Pcs)

Table 69. Asia-Pacific Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (US\$ Million)

Table 70. Latin America Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (K Pcs)

Table 71. Latin America Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (US\$ Million)

Table 72. Middle East and Africa Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (K Pcs)

Table 73. Middle East and Africa Single-Mode Blue Laser Diode Sales by Application (2019-2024) & (US\$ Million)

Table 74. Nichia Company Information

Table 75. Nichia Business Overview

Table 76. Nichia Single-Mode Blue Laser Diode Sales (K Pcs), Revenue (US\$ Million), Price (USD/Pcs) and Gross Margin (2019-2024)

Table 77. Nichia Single-Mode Blue Laser Diode Product Portfolio

Table 78. Nichia Recent Development

Table 79. Sharp Company Information

Table 80. Sharp Business Overview

Table 81. Sharp Single-Mode Blue Laser Diode Sales (K Pcs), Revenue (US\$ Million), Price (USD/Pcs) and Gross Margin (2019-2024)

Table 82. Sharp Single-Mode Blue Laser Diode Product Portfolio

Table 83. Sharp Recent Development

Table 84. Sony Company Information

Table 85. Sony Business Overview

Table 86. Sony Single-Mode Blue Laser Diode Sales (K Pcs), Revenue (US\$ Million), Price (USD/Pcs) and Gross Margin (2019-2024)

Table 87. Sony Single-Mode Blue Laser Diode Product Portfolio

Table 88. Sony Recent Development

Table 89. Osram Opto Semiconductors Company Information

Table 90. Osram Opto Semiconductors Business Overview

Table 91. Osram Opto Semiconductors Single-Mode Blue Laser Diode Sales (K Pcs), Revenue (US\$ Million), Price (USD/Pcs) and Gross Margin (2019-2024)

Table 92. Osram Opto Semiconductors Single-Mode Blue Laser Diode Product Portfolio

Table 93. Osram Opto Semiconductors Recent Development

- Table 94. TOPTICA Photonics Inc. Company Information
- Table 95. TOPTICA Photonics Inc. Business Overview
- Table 96. TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Sales (K Pcs), Revenue (US\$ Million), Price (USD/Pcs) and Gross Margin (2019-2024)
- Table 97. TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Product Portfolio
- Table 98. TOPTICA Photonics Inc. Recent Development
- Table 99. Egismos Technology Corporation Company Information
- Table 100. Egismos Technology Corporation Business Overview
- Table 101. Egismos Technology Corporation Single-Mode Blue Laser Diode Sales (K Pcs), Revenue (US\$ Million), Price (USD/Pcs) and Gross Margin (2019-2024)
- Table 102. Egismos Technology Corporation Single-Mode Blue Laser Diode Product Portfolio
- Table 103. Egismos Technology Corporation Recent Development
- Table 104. Ondax Company Information
- Table 105. Ondax Business Overview
- Table 106. Ondax Single-Mode Blue Laser Diode Sales (K Pcs), Revenue (US\$ Million), Price (USD/Pcs) and Gross Margin (2019-2024)
- Table 107. Ondax Single-Mode Blue Laser Diode Product Portfolio
- Table 108. Ondax Recent Development
- Table 109. North America Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (K Pcs): 2019 VS 2023 VS 2030
- Table 110. North America Single-Mode Blue Laser Diode Sales by Country (2019-2024) & (K Pcs)
- Table 111. North America Single-Mode Blue Laser Diode Sales Market Share by Country (2019-2024)
- Table 112. North America Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030) & (K Pcs)
- Table 113. North America Single-Mode Blue Laser Diode Sales Market Share Forecast by Country (2025-2030)
- Table 114. North America Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030
- Table 115. North America Single-Mode Blue Laser Diode Market Size by Country (2019-2024) & (US\$ Million)
- Table 116. North America Single-Mode Blue Laser Diode Market Share by Country (2019-2024)
- Table 117. North America Single-Mode Blue Laser Diode Market Size Forecast by Country (2025-2030) & (US\$ Million)
- Table 118. North America Single-Mode Blue Laser Diode Market Share Forecast by Country (2025-2030)

Table 119. Europe Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (K Pcs): 2019 VS 2023 VS 2030

Table 120. Europe Single-Mode Blue Laser Diode Sales by Country (2019-2024) & (K Pcs)

Table 121. Europe Single-Mode Blue Laser Diode Sales Market Share by Country (2019-2024)

Table 122. Europe Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030) & (K Pcs)

Table 123. Europe Single-Mode Blue Laser Diode Sales Market Share Forecast by Country (2025-2030)

Table 124. Europe Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 125. Europe Single-Mode Blue Laser Diode Market Size by Country (2019-2024) & (US\$ Million)

Table 126. Europe Single-Mode Blue Laser Diode Market Share by Country (2019-2024)

Table 127. Europe Single-Mode Blue Laser Diode Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 128. Europe Single-Mode Blue Laser Diode Market Share Forecast by Country (2025-2030)

Table 129. Asia-Pacific Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (K Pcs): 2019 VS 2023 VS 2030

Table 130. Asia-Pacific Single-Mode Blue Laser Diode Sales by Country (2019-2024) & (K Pcs)

Table 131. Asia-Pacific Single-Mode Blue Laser Diode Sales Market Share by Country (2019-2024)

Table 132. Asia-Pacific Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030) & (K Pcs)

Table 133. Asia-Pacific Single-Mode Blue Laser Diode Sales Market Share Forecast by Country (2025-2030)

Table 134. Asia-Pacific Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 135. Asia-Pacific Single-Mode Blue Laser Diode Market Size by Country (2019-2024) & (US\$ Million)

Table 136. Asia-Pacific Single-Mode Blue Laser Diode Market Share by Country (2019-2024)

Table 137. Asia-Pacific Single-Mode Blue Laser Diode Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 138. Asia-Pacific Single-Mode Blue Laser Diode Market Share Forecast by

Country (2025-2030)

Table 139. Latin America Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (K Pcs): 2019 VS 2023 VS 2030

Table 140. Latin America Single-Mode Blue Laser Diode Sales by Country (2019-2024) & (K Pcs)

Table 141. Latin America Single-Mode Blue Laser Diode Sales Market Share by Country (2019-2024)

Table 142. Latin America Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030) & (K Pcs)

Table 143. Latin America Single-Mode Blue Laser Diode Sales Market Share Forecast by Country (2025-2030)

Table 144. Latin America Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 145. Latin America Single-Mode Blue Laser Diode Market Size by Country (2019-2024) & (US\$ Million)

Table 146. Latin America Single-Mode Blue Laser Diode Market Share by Country (2019-2024)

Table 147. Latin America Single-Mode Blue Laser Diode Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 148. Latin America Single-Mode Blue Laser Diode Market Share Forecast by Country (2025-2030)

Table 149. Middle East and Africa Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (K Pcs): 2019 VS 2023 VS 2030

Table 150. Middle East and Africa Single-Mode Blue Laser Diode Sales by Country (2019-2024) & (K Pcs)

Table 151. Middle East and Africa Single-Mode Blue Laser Diode Sales Market Share by Country (2019-2024)

Table 152. Middle East and Africa Single-Mode Blue Laser Diode Sales Forecast by Country (2025-2030) & (K Pcs)

Table 153. Middle East and Africa Single-Mode Blue Laser Diode Sales Market Share Forecast by Country (2025-2030)

Table 154. Middle East and Africa Single-Mode Blue Laser Diode Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 155. Middle East and Africa Single-Mode Blue Laser Diode Market Size by Country (2019-2024) & (US\$ Million)

Table 156. Middle East and Africa Single-Mode Blue Laser Diode Market Share by Country (2019-2024)

Table 157. Middle East and Africa Single-Mode Blue Laser Diode Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 158. Middle East and Africa Single-Mode Blue Laser Diode Market Share Forecast by Country (2025-2030)

Table 159. Key Raw Materials

Table 160. Raw Materials Key Suppliers

Table 161. Single-Mode Blue Laser Diode Distributors List

Table 162. Single-Mode Blue Laser Diode Customers List

Table 163. Research Programs/Design for This Report

Table 164. Authors List of This Report

Table 165. Secondary Sources

Table 166. Primary Sources



## List Of Figures

### LIST OF FIGURES

- Figure 1. Single-Mode Blue Laser Diode Product Picture
- Figure 2. Global Single-Mode Blue Laser Diode Market Size (US\$ Million), 2019 VS 2023 VS 2030
- Figure 3. Global Single-Mode Blue Laser Diode Market Size (2019-2030) & (US\$ Million)
- Figure 4. Global Single-Mode Blue Laser Diode Sales (2019-2030) & (K Pcs)
- Figure 5. Product Picture of Below 30mW
- Figure 6. Global Below 30mW Sales YoY Growth (2019-2030) & (K Pcs)
- Figure 7. Product Picture of 30mW-60mW
- Figure 8. Global 30mW-60mW Sales YoY Growth (2019-2030) & (K Pcs)
- Figure 9. Product Picture of 60mW-90mW
- Figure 10. Global 60mW-90mW Sales YoY Growth (2019-2030) & (K Pcs)
- Figure 11. Product Picture of 90mW-200mW
- Figure 12. Global 90mW-200mW Sales YoY Growth (2019-2030) & (K Pcs)
- Figure 13. Product Picture of More than 200mW
- Figure 14. Global More than 200mW Sales YoY Growth (2019-2030) & (K Pcs)
- Figure 15. Global Single-Mode Blue Laser Diode Market Size Overview by Type (2019-2030) & (US\$ Million)
- Figure 16. Global Single-Mode Blue Laser Diode Market Share by Type 2023 VS 2030
- Figure 17. North America Single-Mode Blue Laser Diode Sales Market Share in Volume by Type in 2023
- Figure 18. North America Single-Mode Blue Laser Diode Sales Market Share in Value by Type in 2023
- Figure 19. Europe Single-Mode Blue Laser Diode Sales Market Share in Volume by Type in 2023
- Figure 20. Europe Single-Mode Blue Laser Diode Sales Market Share in Value by Type in 2023
- Figure 21. Asia-Pacific Single-Mode Blue Laser Diode Sales Market Share in Volume by Type in 2023
- Figure 22. Asia-Pacific Single-Mode Blue Laser Diode Sales Market Share in Value by Type in 2023
- Figure 23. Latin America Single-Mode Blue Laser Diode Sales Market Share in Volume by Type in 2023
- Figure 24. Latin America Single-Mode Blue Laser Diode Sales Market Share in Value by Type in 2023

Figure 25. Middle East and Africa Single-Mode Blue Laser Diode Sales Market Share in Volume by Type in 2023

Figure 26. Middle East and Africa Single-Mode Blue Laser Diode Sales Market Share in Value by Type in 2023

Figure 27. Global Top 5 and 10 Single-Mode Blue Laser Diode Players Market Share by Revenue in 2023

Figure 28. Company Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023

Figure 29. Product Picture of Bio/Medical

Figure 30. Global Bio/Medical Sales YoY Growth (2019-2030) & (K Pcs)

Figure 31. Product Picture of Laser Projectors and Scanners

Figure 32. Global Laser Projectors and Scanners Sales YoY Growth (2019-2030) & (K Pcs)

Figure 33. Product Picture of Blu-Ray Devices

Figure 34. Global Blu-Ray Devices Sales YoY Growth (2019-2030) & (K Pcs)

Figure 35. Product Picture of Others

Figure 36. Global Others Sales YoY Growth (2019-2030) & (K Pcs)

Figure 37. Global Single-Mode Blue Laser Diode Market Size Overview by Application (2019-2030) & (US\$ Million)

Figure 38. Global Single-Mode Blue Laser Diode Market Share by Application 2023 VS 2030

Figure 39. North America Single-Mode Blue Laser Diode Sales Market Share in Volume by Application in 2023

Figure 40. North America Single-Mode Blue Laser Diode Sales Market Share in Value by Application in 2023

Figure 41. Europe Single-Mode Blue Laser Diode Sales Market Share in Volume by Application in 2023

Figure 42. Europe Single-Mode Blue Laser Diode Sales Market Share in Value by Application in 2023

Figure 43. Asia-Pacific Single-Mode Blue Laser Diode Sales Market Share in Volume by Application in 2023

Figure 44. Asia-Pacific Single-Mode Blue Laser Diode Sales Market Share in Value by Application in 2023

Figure 45. Latin America Single-Mode Blue Laser Diode Sales Market Share in Volume by Application in 2023

Figure 46. Latin America Single-Mode Blue Laser Diode Sales Market Share in Value by Application in 2023

Figure 47. Middle East and Africa Single-Mode Blue Laser Diode Sales Market Share in Volume by Application in 2023

Figure 48. Middle East and Africa Single-Mode Blue Laser Diode Sales Market Share in



## Value by Application in 2023

Figure 49. North America Single-Mode Blue Laser Diode Sales by Country: 2019 VS 2023 VS 2030 (K Pcs)

Figure 50. North America Single-Mode Blue Laser Diode Sales Share by Country: 2019 VS 2023 VS 2030

Figure 51. North America Single-Mode Blue Laser Diode Market Size by Country: 2019 VS 2023 VS 2030 (US\$ Million)

Figure 52. North America Single-Mode Blue Laser Diode Market Share by Country: 2019 VS 2023 VS 2030

Figure 53. Europe Single-Mode Blue Laser Diode Sales by Country: 2019 VS 2023 VS 2030 (K Pcs)

Figure 54. Europe Single-Mode Blue Laser Diode Sales Share by Country: 2019 VS 2023 VS 2030

Figure 55. Europe Single-Mode Blue Laser Diode Market Size by Country: 2019 VS 2023 VS 2030 (US\$ Million)

Figure 56. Europe Single-Mode Blue Laser Diode Market Share by Country: 2019 VS 2023 VS 2030

Figure 57. Asia-Pacific Single-Mode Blue Laser Diode Sales by Country: 2019 VS 2023 VS 2030 (K Pcs)

Figure 58. Asia-Pacific Single-Mode Blue Laser Diode Sales Share by Country: 2019 VS 2023 VS 2030

Figure 59. Asia-Pacific Single-Mode Blue Laser Diode Market Size by Country: 2019 VS 2023 VS 2030 (US\$ Million)

Figure 60. Asia-Pacific Single-Mode Blue Laser Diode Market Share by Country: 2019 VS 2023 VS 2030

Figure 61. Latin America Single-Mode Blue Laser Diode Sales by Country: 2019 VS 2023 VS 2030 (K Pcs)

Figure 62. Latin America Single-Mode Blue Laser Diode Sales Share by Country: 2019 VS 2023 VS 2030

Figure 63. Latin America Single-Mode Blue Laser Diode Market Size by Country: 2019 VS 2023 VS 2030 (US\$ Million)

Figure 64. Latin

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