

# Global Multi-Mode Blue Laser Diode Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G7F51706DF08EN.html>

Date: January 2026

Pages: 113

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

ID: G7F51706DF08EN

## Abstracts

The global Multi-Mode Blue Laser Diode market size is expected to reach \$ 952 million by 2032, rising at a market growth of 16.8% CAGR during the forecast period (2026-2032).

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.

The market growth of multi-mode blue laser diodes is driven by several key factors. Firstly, the rapid development of laser display and projection technologies is creating strong demand for high-brightness, high-color-saturation light sources, with multi-mode blue laser diodes being an ideal solution due to their high optical power and excellent color performance. Secondly, as precision manufacturing and micromachining become more widespread—especially in metal processing and advanced materials—there is a growing need for short-wavelength, high-energy-density laser sources, further fueling market demand. In the medical and life sciences sectors, blue lasers are increasingly used in non-invasive diagnostic and therapeutic equipment, as their specific wavelengths offer good tissue interaction and antimicrobial effects, particularly in applications such as photodynamic therapy and dermatological treatments. Additionally, emerging applications in automotive lighting, LiDAR, and optical communication are

expanding the use cases for multi-mode blue laser diodes. Finally, continuous reductions in manufacturing costs, advancements in device efficiency and lifetime, and the maturing of the supply chain are all contributing to large-scale commercialization, accelerating market penetration and adoption across various industries.

Global Multi-Mode Blue Laser Diode key players include Nichia, etc. Global top one manufacturer hold a share over 40%. Japan is the largest market, with a share over 60%, followed by South Asia and North America, both have a share over 10% percent. In terms of product, More than 3000mw is the largest segment, with a share over 40%. And in terms of application, the largest application is Laser Projectors and Scanners, followed by Bio/Medical.

This report studies the global Multi-Mode Blue Laser Diode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Multi-Mode Blue Laser Diode and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Multi-Mode Blue Laser Diode that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Multi-Mode Blue Laser Diode total production and demand, 2021-2032, (K Pcs)

Global Multi-Mode Blue Laser Diode total production value, 2021-2032, (USD Million)

Global Multi-Mode Blue Laser Diode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Multi-Mode Blue Laser Diode consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Multi-Mode Blue Laser Diode domestic production, consumption, key domestic manufacturers and share

Global Multi-Mode Blue Laser Diode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Multi-Mode Blue Laser Diode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Multi-Mode Blue Laser Diode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Multi-Mode Blue Laser Diode 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 ams-OSRAM, Sharp, Nichia, Keysight, Laserline GmbH, USHIO, Renesas, Egismos Technology, 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 Multi-Mode Blue Laser Diode market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (USD/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Multi-Mode Blue Laser Diode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Multi-Mode Blue Laser Diode Market, Segmentation by Type:

Below 1000MW

1000MW-3000MW

More Than 3000MW

#### Global Multi-Mode Blue Laser Diode Market, Segmentation by Application:

Laser Projectors and Scanners

Bio or Medical

Metrology Measurements Application

Others

#### Companies Profiled:

ams-OSRAM

Sharp

Nichia

Keysight

Laserline GmbH

USHIO

Renesas

Egismos Technology

**Key Questions Answered:**

1. How big is the global Multi-Mode Blue Laser Diode market?
2. What is the demand of the global Multi-Mode Blue Laser Diode market?
3. What is the year over year growth of the global Multi-Mode Blue Laser Diode market?
4. What is the production and production value of the global Multi-Mode Blue Laser Diode market?
5. Who are the key producers in the global Multi-Mode Blue Laser Diode market?
6. What are the growth factors driving the market demand?

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