

Global Laser Blue Light Chip Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G074BDE89C33EN.html>

Date: July 2026

Pages: 123

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

ID: G074BDE89C33EN

Abstracts

The global Laser Blue Light Chip market size is expected to reach \$ 952 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

Blue laser chips are core semiconductor laser components based on III-V compound semiconductor materials such as gallium nitride (GaN) and indium gallium nitride (InGaN) manufactured through processes including epitaxial growth, photolithography and etching, ridge waveguide fabrication, facet cleaving and coating, electrode preparation, wafer testing, and chip sorting. Typically featuring center wavelengths around 405 nm, 445 nm, 450 nm, 455 nm, and 462 nm, these chips are characterized by high brightness, high directionality, modulatability, high power density, and excellent beam quality. They serve as critical upstream components for blue laser modules, laser displays, projection light sources, stage lighting, medical aesthetics, material processing, 3D printing, optical storage, fluorescence excitation, and scientific research instruments. In 2025, global sales volume for blue laser chips is projected to reach approximately 184 million units, with an average unit price of about \$2.76; the industry's average capacity utilization rate is estimated at 78.4%, and the gross profit margin at 39.6%. Upstream enterprises operate primarily in sectors such as GaN and sapphire substrates, MOCVD equipment, epitaxial materials (e.g., trimethylgallium and ammonia), photoresists, coating materials, metal electrodes, dicing and grinding, testing and sorting, and packaging materials. Downstream enterprises are mainly active in fields including laser displays, laser projection, industrial processing, medical aesthetics, stage lighting, optical inspection, 3D printing, scientific research and education, and consumer electronics modules. The product cost structure is broken down as follows: epitaxial wafers and substrates (approx. 31%), chip fabrication and photolithography/etching (17%), facet coating and cleaving (10%), testing, sorting, and burn-in (12%), metal electrodes and auxiliary materials (5%), labor and manufacturing

overhead (7%), equipment depreciation (8%), pre-packaging processing and logistics (4%), and R&D, quality control, and management expenses (6%). The product portfolio includes 405nm blue-violet chips, 445nm high-power blue chips, 450nm general-purpose blue chips, 455nm laser display chips, 462nm specialized display chips, single-mode blue chips, multi-mode high-power blue chips, continuous-wave (CW) blue chips, and pulse-modulated blue chips. Downstream customers comprise manufacturers of laser modules, laser projection systems, laser TVs, industrial laser equipment, 3D printing equipment, medical aesthetic devices, stage lighting, optical inspection instruments, scientific research instruments, and light source modules for consumer electronics. Business opportunities are driven by policies promoting the localization of semiconductor optoelectronic devices, the upgrading of the laser display industry, the independent control of high-end manufacturing equipment, the standardization of medical devices, and increased investment in intelligent manufacturing. Technological innovation is propelled by advancements such as high-efficiency GaN epitaxy, high-power facet passivation, low threshold currents, narrow divergence angle designs, chip arrays, synergistic thermal management packaging, and automated sorting. Finally, shifting consumer demands are reflected in the end market's growing need for blue laser light sources that offer higher brightness, wider color gamuts, longer lifespans, lower energy consumption, more compact sizes, and greater reliability.

Blue laser chips belong to a semiconductor laser chip sector characterized by high technical barriers and continuously evolving application structures; overall demand is driven by laser displays, projection light sources, industrial processing, 3D printing, medical aesthetics, stage lighting, and scientific instruments. Compared to red laser chips, blue laser chips present greater challenges regarding epitaxial defect control, thermal management, facet reliability, and high-power stability; consequently, leading enterprises enjoy a distinct advantage in materials, manufacturing processes, and reliability data. While 405nm blue-violet chips maintain steady demand in optical storage, lithography, fluorescence excitation, and detection, high-power chips in the 445nm-455nm range are central to laser displays, laser TVs, projection systems, and industrial blue-laser processing. Over the next six to eight years, growth in the blue laser chip market will stem not merely from increased unit shipments, but rather from advancements in power output, array-based applications, the penetration of laser display technology, the processing of copper and highly reflective materials, micro-projection, and upgrades to high-brightness light source modules. Chinese enterprises have made rapid progress in low-to-medium power blue laser chips, laser modules, and adoption across certain application sectors; however, achieving high-power, highly reliable, and highly consistent products still requires continuous improvement in gallium

nitride (GaN) epitaxial quality, facet passivation, thermal design, and mass-production yields. Industry competition is shifting from a focus solely on price and production capacity to a contest based on power density, lifespan, wavelength consistency, yield rates, customer certification, and module integration capabilities; companies possessing integrated capabilities across epitaxy, chip fabrication, packaging, and application solutions are better positioned to maintain high gross margins in the high-end market.

This report studies the global Laser Blue Light Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laser Blue Light Chip 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 Laser Blue Light Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laser Blue Light Chip total production and demand, 2021-2032, (Million Pcs)

Global Laser Blue Light Chip total production value, 2021-2032, (USD Million)

Global Laser Blue Light Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs), (based on production site)

Global Laser Blue Light Chip consumption by region & country, CAGR, 2021-2032 & (Million Pcs)

U.S. VS China: Laser Blue Light Chip domestic production, consumption, key domestic manufacturers and share

Global Laser Blue Light Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Pcs)

Global Laser Blue Light Chip production by Wavelength, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

Global Laser Blue Light Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

This report profiles key players in the global Laser Blue Light Chip 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 Nichia (JP), Mitsubishi Electric (JP), Panasonic (JP), Kyocera (JP), Osram (DE), Sharp (JP), Sony (JP), Sanan Optoelectronics (CN), Sinosemic (CN), Hurricane Chip (CN), 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 Laser Blue Light Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Pcs) and average price (US\$/Pcs) by manufacturer, by Wavelength, 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 Laser Blue Light Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser Blue Light Chip Market, Segmentation by Wavelength:

440 - 450 nm

450 - 460 nm

> 460 nm

Global Laser Blue Light Chip Market, Segmentation by Output Power:

1 - 5 W

> 5 W

Global Laser Blue Light Chip Market, Segmentation by Substrate Material:

GaN-on-GaN

GaN-on-Si

GaN-on-Sapphire

Global Laser Blue Light Chip Market, Segmentation by Application:

Laser Display

Illumination

Metal Processing

Other

Companies Profiled:

Nichia (JP)

Mitsubishi Electric (JP)

Panasonic (JP)

Kyocera (JP)

Osram (DE)

Sharp (JP)

Sony (JP)

Sanan Optoelectronics (CN)

Sinosemic (CN)

Hurricane Chip (CN)

Gan Semiconductor (CN)

Wuhan Cyanopto Technology (CN)

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Laser Blue Light Chip Introduction
- 1.2 World Laser Blue Light Chip Supply & Forecast
 - 1.2.1 World Laser Blue Light Chip Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Laser Blue Light Chip Production (2021-2032)
 - 1.2.3 World Laser Blue Light Chip Pricing Trends (2021-2032)
- 1.3 World Laser Blue Light Chip Production by Region (Based on Production Site)
 - 1.3.1 World Laser Blue Light Chip Production Value by Region (2021-2032)
 - 1.3.2 World Laser Blue Light Chip Production by Region (2021-2032)
 - 1.3.3 World Laser Blue Light Chip Average Price by Region (2021-2032)
 - 1.3.4 North America Laser Blue Light Chip Production (2021-2032)
 - 1.3.5 Europe Laser Blue Light Chip Production (2021-2032)
 - 1.3.6 China Laser Blue Light Chip Production (2021-2032)
 - 1.3.7 Japan Laser Blue Light Chip Production (2021-2032)
 - 1.3.8 South Korea Laser Blue Light Chip Production (2021-2032)
 - 1.3.9 China Taiwan Laser Blue Light Chip Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Laser Blue Light Chip Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Laser Blue Light Chip Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Laser Blue Light Chip Demand (2021-2032)
- 2.2 World Laser Blue Light Chip Consumption by Region
 - 2.2.1 World Laser Blue Light Chip Consumption by Region (2021-2026)
 - 2.2.2 World Laser Blue Light Chip Consumption Forecast by Region (2027-2032)
- 2.3 United States Laser Blue Light Chip Consumption (2021-2032)
- 2.4 China Laser Blue Light Chip Consumption (2021-2032)
- 2.5 Europe Laser Blue Light Chip Consumption (2021-2032)
- 2.6 Japan Laser Blue Light Chip Consumption (2021-2032)
- 2.7 South Korea Laser Blue Light Chip Consumption (2021-2032)
- 2.8 ASEAN Laser Blue Light Chip Consumption (2021-2032)
- 2.9 India Laser Blue Light Chip Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Laser Blue Light Chip Production Value by Manufacturer (2021-2026)
- 3.2 World Laser Blue Light Chip Production by Manufacturer (2021-2026)
- 3.3 World Laser Blue Light Chip Average Price by Manufacturer (2021-2026)
- 3.4 Laser Blue Light Chip Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Laser Blue Light Chip Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Laser Blue Light Chip in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Laser Blue Light Chip in 2025
- 3.6 Laser Blue Light Chip Market: Overall Company Footprint Analysis
 - 3.6.1 Laser Blue Light Chip Market: Region Footprint
 - 3.6.2 Laser Blue Light Chip Market: Company Product Type Footprint
 - 3.6.3 Laser Blue Light Chip 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: Laser Blue Light Chip Production Value Comparison
 - 4.1.1 United States VS China: Laser Blue Light Chip Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Laser Blue Light Chip Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Laser Blue Light Chip Production Comparison
 - 4.2.1 United States VS China: Laser Blue Light Chip Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Laser Blue Light Chip Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Laser Blue Light Chip Consumption Comparison
 - 4.3.1 United States VS China: Laser Blue Light Chip Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Laser Blue Light Chip Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Laser Blue Light Chip Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Laser Blue Light Chip Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Laser Blue Light Chip Production Value (2021-2026)

4.4.3 United States Based Manufacturers Laser Blue Light Chip Production (2021-2026)

4.5 China Based Laser Blue Light Chip Manufacturers and Market Share

4.5.1 China Based Laser Blue Light Chip Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Laser Blue Light Chip Production Value (2021-2026)

4.5.3 China Based Manufacturers Laser Blue Light Chip Production (2021-2026)

4.6 Rest of World Based Laser Blue Light Chip Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Laser Blue Light Chip Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Laser Blue Light Chip Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Laser Blue Light Chip Production (2021-2026)

5 MARKET ANALYSIS BY WAVELENGTH

5.1 World Laser Blue Light Chip Market Size Overview by Wavelength: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Wavelength

5.2.1 440 - 450 nm

5.2.2 450 - 460 nm

5.2.3 > 460 nm

5.3 Market Segment by Wavelength

5.3.1 World Laser Blue Light Chip Production by Wavelength (2021-2032)

5.3.2 World Laser Blue Light Chip Production Value by Wavelength (2021-2032)

5.3.3 World Laser Blue Light Chip Average Price by Wavelength (2021-2032)

6 MARKET ANALYSIS BY OUTPUT POWER

6.1 World Laser Blue Light Chip Market Size Overview by Output Power: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Output Power

6.2.1 6.2.2 1 - 5 W

6.2.3 > 5 W

6.3 Market Segment by Output Power

6.3.1 World Laser Blue Light Chip Production by Output Power (2021-2032)

6.3.2 World Laser Blue Light Chip Production Value by Output Power (2021-2032)

6.3.3 World Laser Blue Light Chip Average Price by Output Power (2021-2032)

7 MARKET ANALYSIS BY SUBSTRATE MATERIAL

7.1 World Laser Blue Light Chip Market Size Overview by Substrate Material: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Substrate Material

7.2.1 GaN-on-GaN

7.2.2 GaN-on-Si

7.2.3 GaN-on-Sapphire

7.3 Market Segment by Substrate Material

7.3.1 World Laser Blue Light Chip Production by Substrate Material (2021-2032)

7.3.2 World Laser Blue Light Chip Production Value by Substrate Material (2021-2032)

7.3.3 World Laser Blue Light Chip Average Price by Substrate Material (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Laser Blue Light Chip Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Laser Display

8.2.2 Illumination

8.2.3 Metal Processing

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Laser Blue Light Chip Production by Application (2021-2032)

8.3.2 World Laser Blue Light Chip Production Value by Application (2021-2032)

8.3.3 World Laser Blue Light Chip Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Nichia (JP)

9.1.1 Nichia (JP) Details

9.1.2 Nichia (JP) Major Business

9.1.3 Nichia (JP) Laser Blue Light Chip Product and Services

9.1.4 Nichia (JP) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Nichia (JP) Recent Developments/Updates

9.1.6 Nichia (JP) Competitive Strengths & Weaknesses

9.2 Mitsubishi Electric (JP)

9.2.1 Mitsubishi Electric (JP) Details

9.2.2 Mitsubishi Electric (JP) Major Business

9.2.3 Mitsubishi Electric (JP) Laser Blue Light Chip Product and Services

9.2.4 Mitsubishi Electric (JP) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Mitsubishi Electric (JP) Recent Developments/Updates

9.2.6 Mitsubishi Electric (JP) Competitive Strengths & Weaknesses

9.3 Panasonic (JP)

9.3.1 Panasonic (JP) Details

9.3.2 Panasonic (JP) Major Business

9.3.3 Panasonic (JP) Laser Blue Light Chip Product and Services

9.3.4 Panasonic (JP) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Panasonic (JP) Recent Developments/Updates

9.3.6 Panasonic (JP) Competitive Strengths & Weaknesses

9.4 Kyocera (JP)

9.4.1 Kyocera (JP) Details

9.4.2 Kyocera (JP) Major Business

9.4.3 Kyocera (JP) Laser Blue Light Chip Product and Services

9.4.4 Kyocera (JP) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Kyocera (JP) Recent Developments/Updates

9.4.6 Kyocera (JP) Competitive Strengths & Weaknesses

9.5 Osram (DE)

9.5.1 Osram (DE) Details

9.5.2 Osram (DE) Major Business

9.5.3 Osram (DE) Laser Blue Light Chip Product and Services

9.5.4 Osram (DE) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Osram (DE) Recent Developments/Updates

9.5.6 Osram (DE) Competitive Strengths & Weaknesses

9.6 Sharp (JP)

9.6.1 Sharp (JP) Details

9.6.2 Sharp (JP) Major Business

- 9.6.3 Sharp (JP) Laser Blue Light Chip Product and Services
- 9.6.4 Sharp (JP) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Sharp (JP) Recent Developments/Updates
- 9.6.6 Sharp (JP) Competitive Strengths & Weaknesses
- 9.7 Sony (JP)
 - 9.7.1 Sony (JP) Details
 - 9.7.2 Sony (JP) Major Business
 - 9.7.3 Sony (JP) Laser Blue Light Chip Product and Services
 - 9.7.4 Sony (JP) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Sony (JP) Recent Developments/Updates
 - 9.7.6 Sony (JP) Competitive Strengths & Weaknesses
- 9.8 Sanan Optoelectronics (CN)
 - 9.8.1 Sanan Optoelectronics (CN) Details
 - 9.8.2 Sanan Optoelectronics (CN) Major Business
 - 9.8.3 Sanan Optoelectronics (CN) Laser Blue Light Chip Product and Services
 - 9.8.4 Sanan Optoelectronics (CN) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Sanan Optoelectronics (CN) Recent Developments/Updates
 - 9.8.6 Sanan Optoelectronics (CN) Competitive Strengths & Weaknesses
- 9.9 Sinosemantic (CN)
 - 9.9.1 Sinosemantic (CN) Details
 - 9.9.2 Sinosemantic (CN) Major Business
 - 9.9.3 Sinosemantic (CN) Laser Blue Light Chip Product and Services
 - 9.9.4 Sinosemantic (CN) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Sinosemantic (CN) Recent Developments/Updates
 - 9.9.6 Sinosemantic (CN) Competitive Strengths & Weaknesses
- 9.10 Hurricane Chip (CN)
 - 9.10.1 Hurricane Chip (CN) Details
 - 9.10.2 Hurricane Chip (CN) Major Business
 - 9.10.3 Hurricane Chip (CN) Laser Blue Light Chip Product and Services
 - 9.10.4 Hurricane Chip (CN) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Hurricane Chip (CN) Recent Developments/Updates
 - 9.10.6 Hurricane Chip (CN) Competitive Strengths & Weaknesses
- 9.11 Gan Semiconductor (CN)
 - 9.11.1 Gan Semiconductor (CN) Details

- 9.11.2 Gan Semiconductor (CN) Major Business
- 9.11.3 Gan Semiconductor (CN) Laser Blue Light Chip Product and Services
- 9.11.4 Gan Semiconductor (CN) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Gan Semiconductor (CN) Recent Developments/Updates
- 9.11.6 Gan Semiconductor (CN) Competitive Strengths & Weaknesses
- 9.12 Wuhan Cyanopto Technology (CN)
 - 9.12.1 Wuhan Cyanopto Technology (CN) Details
 - 9.12.2 Wuhan Cyanopto Technology (CN) Major Business
 - 9.12.3 Wuhan Cyanopto Technology (CN) Laser Blue Light Chip Product and Services
 - 9.12.4 Wuhan Cyanopto Technology (CN) Laser Blue Light Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Wuhan Cyanopto Technology (CN) Recent Developments/Updates
 - 9.12.6 Wuhan Cyanopto Technology (CN) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Laser Blue Light Chip Industry Chain
- 10.2 Laser Blue Light Chip Upstream Analysis
 - 10.2.1 Laser Blue Light Chip Core Raw Materials
 - 10.2.2 Main Manufacturers of Laser Blue Light Chip Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Laser Blue Light Chip Production Mode
- 10.6 Laser Blue Light Chip Procurement Model
- 10.7 Laser Blue Light Chip Industry Sales Model and Sales Channels
 - 10.7.1 Laser Blue Light Chip Sales Model
 - 10.7.2 Laser Blue Light Chip Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Laser Blue Light Chip Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Laser Blue Light Chip Production Value by Region (2021-2026) & (USD Million)

Table 3. World Laser Blue Light Chip Production Value by Region (2027-2032) & (USD Million)

Table 4. World Laser Blue Light Chip Production Value Market Share by Region (2021-2026)

Table 5. World Laser Blue Light Chip Production Value Market Share by Region (2027-2032)

Table 6. World Laser Blue Light Chip Production by Region (2021-2026) & (Million Pcs)

Table 7. World Laser Blue Light Chip Production by Region (2027-2032) & (Million Pcs)

Table 8. World Laser Blue Light Chip Production Market Share by Region (2021-2026)

Table 9. World Laser Blue Light Chip Production Market Share by Region (2027-2032)

Table 10. World Laser Blue Light Chip Average Price by Region (2021-2026) & (US\$/Pcs)

Table 11. World Laser Blue Light Chip Average Price by Region (2027-2032) & (US\$/Pcs)

Table 12. Laser Blue Light Chip Major Market Trends

Table 13. World Laser Blue Light Chip Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Pcs)

Table 14. World Laser Blue Light Chip Consumption by Region (2021-2026) & (Million Pcs)

Table 15. World Laser Blue Light Chip Consumption Forecast by Region (2027-2032) & (Million Pcs)

Table 16. World Laser Blue Light Chip Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Laser Blue Light Chip Producers in 2025

Table 18. World Laser Blue Light Chip Production by Manufacturer (2021-2026) & (Million Pcs)

Table 19. Production Market Share of Key Laser Blue Light Chip Producers in 2025

Table 20. World Laser Blue Light Chip Average Price by Manufacturer (2021-2026) & (US\$/Pcs)

Table 21. Global Laser Blue Light Chip Company Evaluation Quadrant

Table 22. World Laser Blue Light Chip Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Laser Blue Light Chip Production Site of Key Manufacturer

Table 24. Laser Blue Light Chip Market: Company Product Type Footprint

Table 25. Laser Blue Light Chip Market: Company Product Application Footprint

Table 26. Laser Blue Light Chip Competitive Factors

Table 27. Laser Blue Light Chip New Entrant and Capacity Expansion Plans

Table 28. Laser Blue Light Chip Mergers & Acquisitions Activity

Table 29. United States VS China Laser Blue Light Chip Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Laser Blue Light Chip Production Comparison, (2021 & 2025 & 2032) & (Million Pcs)

Table 31. United States VS China Laser Blue Light Chip Consumption Comparison, (2021 & 2025 & 2032) & (Million Pcs)

Table 32. United States Based Laser Blue Light Chip Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Laser Blue Light Chip Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Laser Blue Light Chip Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Laser Blue Light Chip Production (2021-2026) & (Million Pcs)

Table 36. United States Based Manufacturers Laser Blue Light Chip Production Market Share (2021-2026)

Table 37. China Based Laser Blue Light Chip Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Laser Blue Light Chip Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Laser Blue Light Chip Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Laser Blue Light Chip Production, (2021-2026) & (Million Pcs)

Table 41. China Based Manufacturers Laser Blue Light Chip Production Market Share (2021-2026)

Table 42. Rest of World Based Laser Blue Light Chip Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Laser Blue Light Chip Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Laser Blue Light Chip Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Laser Blue Light Chip Production, (2021-2026) & (Million Pcs)

Table 46. Rest of World Based Manufacturers Laser Blue Light Chip Production Market Share (2021-2026)

Table 47. World Laser Blue Light Chip Production Value by Wavelength, (USD Million), 2021 & 2025 & 2032

Table 48. World Laser Blue Light Chip Production by Wavelength (2021-2026) & (Million Pcs)

Table 49. World Laser Blue Light Chip Production by Wavelength (2027-2032) & (Million Pcs)

Table 50. World Laser Blue Light Chip Production Value by Wavelength (2021-2026) & (USD Million)

Table 51. World Laser Blue Light Chip Production Value by Wavelength (2027-2032) & (USD Million)

Table 52. World Laser Blue Light Chip Average Price by Wavelength (2021-2026) & (US\$/Pcs)

Table 53. World Laser Blue Light Chip Average Price by Wavelength (2027-2032) & (US\$/Pcs)

Table 54. World Laser Blue Light Chip Production Value by Output Power, (USD Million), 2021 & 2025 & 2032

Table 55. World Laser Blue Light Chip Production by Output Power (2021-2026) & (Million Pcs)

Table 56. World Laser Blue Light Chip Production by Output Power (2027-2032) & (Million Pcs)

Table 57. World Laser Blue Light Chip Production Value by Output Power (2021-2026) & (USD Million)

Table 58. World Laser Blue Light Chip Production Value by Output Power (2027-2032) & (USD Million)

Table 59. World Laser Blue Light Chip Average Price by Output Power (2021-2026) & (US\$/Pcs)

Table 60. World Laser Blue Light Chip Average Price by Output Power (2027-2032) & (US\$/Pcs)

Table 61. World Laser Blue Light Chip Production Value by Substrate Material, (USD Million), 2021 & 2025 & 2032

Table 62. World Laser Blue Light Chip Production by Substrate Material (2021-2026) & (Million Pcs)

Table 63. World Laser Blue Light Chip Production by Substrate Material (2027-2032) & (Million Pcs)

Table 64. World Laser Blue Light Chip Production Value by Substrate Material (2021-2026) & (USD Million)

Table 65. World Laser Blue Light Chip Production Value by Substrate Material (2027-2032) & (USD Million)

Table 66. World Laser Blue Light Chip Average Price by Substrate Material (2021-2026) & (US\$/Pcs)

Table 67. World Laser Blue Light Chip Average Price by Substrate Material (2027-2032) & (US\$/Pcs)

Table 68. World Laser Blue Light Chip Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Laser Blue Light Chip Production by Application (2021-2026) & (Million Pcs)

Table 70. World Laser Blue Light Chip Production by Application (2027-2032) & (Million Pcs)

Table 71. World Laser Blue Light Chip Production Value by Application (2021-2026) & (USD Million)

Table 72. World Laser Blue Light Chip Production Value by Application (2027-2032) & (USD Million)

Table 73. World Laser Blue Light Chip Average Price by Application (2021-2026) & (US\$/Pcs)

Table 74. World Laser Blue Light Chip Average Price by Application (2027-2032) & (US\$/Pcs)

Table 75. Nichia (JP) Basic Information, Manufacturing Base and Competitors

Table 76. Nichia (JP) Major Business

Table 77. Nichia (JP) Laser Blue Light Chip Product and Services

Table 78. Nichia (JP) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Nichia (JP) Recent Developments/Updates

Table 80. Nichia (JP) Competitive Strengths & Weaknesses

Table 81. Mitsubishi Electric (JP) Basic Information, Manufacturing Base and Competitors

Table 82. Mitsubishi Electric (JP) Major Business

Table 83. Mitsubishi Electric (JP) Laser Blue Light Chip Product and Services

Table 84. Mitsubishi Electric (JP) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Mitsubishi Electric (JP) Recent Developments/Updates

Table 86. Mitsubishi Electric (JP) Competitive Strengths & Weaknesses

Table 87. Panasonic (JP) Basic Information, Manufacturing Base and Competitors

Table 88. Panasonic (JP) Major Business

Table 89. Panasonic (JP) Laser Blue Light Chip Product and Services

Table 90. Panasonic (JP) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Panasonic (JP) Recent Developments/Updates

Table 92. Panasonic (JP) Competitive Strengths & Weaknesses

Table 93. Kyocera (JP) Basic Information, Manufacturing Base and Competitors

Table 94. Kyocera (JP) Major Business

Table 95. Kyocera (JP) Laser Blue Light Chip Product and Services

Table 96. Kyocera (JP) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Kyocera (JP) Recent Developments/Updates

Table 98. Kyocera (JP) Competitive Strengths & Weaknesses

Table 99. Osram (DE) Basic Information, Manufacturing Base and Competitors

Table 100. Osram (DE) Major Business

Table 101. Osram (DE) Laser Blue Light Chip Product and Services

Table 102. Osram (DE) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Osram (DE) Recent Developments/Updates

Table 104. Osram (DE) Competitive Strengths & Weaknesses

Table 105. Sharp (JP) Basic Information, Manufacturing Base and Competitors

Table 106. Sharp (JP) Major Business

Table 107. Sharp (JP) Laser Blue Light Chip Product and Services

Table 108. Sharp (JP) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Sharp (JP) Recent Developments/Updates

Table 110. Sharp (JP) Competitive Strengths & Weaknesses

Table 111. Sony (JP) Basic Information, Manufacturing Base and Competitors

Table 112. Sony (JP) Major Business

Table 113. Sony (JP) Laser Blue Light Chip Product and Services

Table 114. Sony (JP) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Sony (JP) Recent Developments/Updates

Table 116. Sony (JP) Competitive Strengths & Weaknesses

Table 117. Sanan Optoelectronics (CN) Basic Information, Manufacturing Base and Competitors

Table 118. Sanan Optoelectronics (CN) Major Business

Table 119. Sanan Optoelectronics (CN) Laser Blue Light Chip Product and Services

Table 120. Sanan Optoelectronics (CN) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Sanan Optoelectronics (CN) Recent Developments/Updates

Table 122. Sanan Optoelectronics (CN) Competitive Strengths & Weaknesses

Table 123. Sinosemic (CN) Basic Information, Manufacturing Base and Competitors

Table 124. Sinosemic (CN) Major Business

Table 125. Sinosemic (CN) Laser Blue Light Chip Product and Services

Table 126. Sinosemic (CN) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Sinosemic (CN) Recent Developments/Updates

Table 128. Sinosemic (CN) Competitive Strengths & Weaknesses

Table 129. Hurricane Chip (CN) Basic Information, Manufacturing Base and Competitors

Table 130. Hurricane Chip (CN) Major Business

Table 131. Hurricane Chip (CN) Laser Blue Light Chip Product and Services

Table 132. Hurricane Chip (CN) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Hurricane Chip (CN) Recent Developments/Updates

Table 134. Hurricane Chip (CN) Competitive Strengths & Weaknesses

Table 135. Gan Semiconductor (CN) Basic Information, Manufacturing Base and Competitors

Table 136. Gan Semiconductor (CN) Major Business

Table 137. Gan Semiconductor (CN) Laser Blue Light Chip Product and Services

Table 138. Gan Semiconductor (CN) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Gan Semiconductor (CN) Recent Developments/Updates

Table 140. Gan Semiconductor (CN) Competitive Strengths & Weaknesses

Table 141. Wuhan Cyanopto Technology (CN) Basic Information, Manufacturing Base and Competitors

Table 142. Wuhan Cyanopto Technology (CN) Major Business

Table 143. Wuhan Cyanopto Technology (CN) Laser Blue Light Chip Product and Services

Table 144. Wuhan Cyanopto Technology (CN) Laser Blue Light Chip Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Wuhan Cyanopto Technology (CN) Recent Developments/Updates

Table 146. Wuhan Cyanopto Technology (CN) Competitive Strengths & Weaknesses

Table 147. Global Key Players of Laser Blue Light Chip Upstream (Raw Materials)

Table 148. Global Laser Blue Light Chip Typical Customers

Table 149. Laser Blue Light Chip Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Laser Blue Light Chip Picture

Figure 2. World Laser Blue Light Chip Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Laser Blue Light Chip Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Laser Blue Light Chip Production (2021-2032) & (Million Pcs)

Figure 5. World Laser Blue Light Chip Average Price (2021-2032) & (US\$/Pcs)

Figure 6. World Laser Blue Light Chip Production Value Market Share by Region (2021-2032)

Figure 7. World Laser Blue Light Chip Production Market Share by Region (2021-2032)

Figure 8. North America Laser Blue Light Chip Production (2021-2032) & (Million Pcs)

Figure 9. Europe Laser Blue Light Chip Production (2021-2032) & (Million Pcs)

Figure 10. China Laser Blue Light Chip Production (2021-2032) & (Million Pcs)

Figure 11. Japan Laser Blue Light Chip Production (2021-2032) & (Million Pcs)

Figure 12. South Korea Laser Blue Light Chip Production (2021-2032) & (Million Pcs)

Figure 13. China Taiwan Laser Blue Light Chip Production (2021-2032) & (Million Pcs)

Figure 14. Laser Blue Light Chip Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Laser Blue Light Chip Consumption (2021-2032) & (Million Pcs)

Figure 17. World Laser Blue Light Chip Consumption Market Share by Region (2021-2032)

Figure 18. United States Laser Blue Light Chip Consumption (2021-2032) & (Million Pcs)

Figure 19. China Laser Blue Light Chip Consumption (2021-2032) & (Million Pcs)

Figure 20. Europe Laser Blue Light Chip Consumption (2021-2032) & (Million Pcs)

Figure 21. Japan Laser Blue Light Chip Consumption (2021-2032) & (Million Pcs)

Figure 22. South Korea Laser Blue Light Chip Consumption (2021-2032) & (Million Pcs)

Figure 23. ASEAN Laser Blue Light Chip Consumption (2021-2032) & (Million Pcs)

Figure 24. India Laser Blue Light Chip Consumption (2021-2032) & (Million Pcs)

Figure 25. Producer Shipments of Laser Blue Light Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Laser Blue Light Chip Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Laser Blue Light Chip Markets in 2025

Figure 28. United States VS China: Laser Blue Light Chip Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Laser Blue Light Chip Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Laser Blue Light Chip Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Laser Blue Light Chip Production Market Share 2025

Figure 32. China Based Manufacturers Laser Blue Light Chip Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Laser Blue Light Chip Production Market Share 2025

Figure 34. World Laser Blue Light Chip Production Value by Wavelength, (USD Million), 2021 & 2025 & 2032

Figure 35. World Laser Blue Light Chip Production Value Market Share by Wavelength in 2025

Figure 36. 440 - 450 nm

Figure 37. 450 - 460 nm

Figure 38. > 460 nm

Figure 39. World Laser Blue Light Chip Production Market Share by Wavelength (2021-2032)

Figure 40. World Laser Blue Light Chip Production Value Market Share by Wavelength (2021-2032)

Figure 41. World Laser Blue Light Chip Average Price by Wavelength (2021-2032) & (US\$/Pcs)

Figure 42. World Laser Blue Light Chip Production Value by Output Power, (USD Million), 2021 & 2025 & 2032

Figure 43. World Laser Blue Light Chip Production Value Market Share by Output Power in 2025

Figure 44. Figure 45. 1 - 5 W

Figure 46. > 5 W

Figure 47. World Laser Blue Light Chip Production Market Share by Output Power (2021-2032)

Figure 48. World Laser Blue Light Chip Production Value Market Share by Output Power (2021-2032)

Figure 49. World Laser Blue Light Chip Average Price by Output Power (2021-2032) & (US\$/Pcs)

Figure 50. World Laser Blue Light Chip Production Value by Substrate Material, (USD Million), 2021 & 2025 & 2032

Figure 51. World Laser Blue Light Chip Production Value Market Share by Substrate Material in 2025

Figure 52. GaN-on-GaN

Figure 53. GaN-on-Si

Figure 54. GaN-on-Sapphire

Figure 55. World Laser Blue Light Chip Production Market Share by Substrate Material (2021-2032)

Figure 56. World Laser Blue Light Chip Production Value Market Share by Substrate Material (2021-2032)

Figure 57. World Laser Blue Light Chip Average Price by Substrate Material (2021-2032) & (US\$/Pcs)

Figure 58. World Laser Blue Light Chip Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Laser Blue Light Chip Production Value Market Share by Application in 2025

Figure 60. Laser Display

Figure 61. Illumination

Figure 62. Metal Processing

Figure 63. Other

Figure 64. World Laser Blue Light Chip Production Market Share by Application (2021-2032)

Figure 65. World Laser Blue Light Chip Production Value Market Share by Application (2021-2032)

Figure 66. World Laser Blue Light Chip Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 67. Laser Blue Light Chip Industry Chain

Figure 68. Laser Blue Light Chip Procurement Model

Figure 69. Laser Blue Light Chip Sales Model

Figure 70. Laser Blue Light Chip Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

I would like to order

Product name: Global Laser Blue Light Chip Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G074BDE89C33EN.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/G074BDE89C33EN.html>