

# Global Gallium Nitride-Based Blue Laser Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Gallium Nitride-Based Blue Laser market size is expected to reach \$ 278 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

Gallium nitride (GaN)-based materials?including indium nitride (InN), gallium nitride (GaN), aluminum nitride (AlN), and their alloys?are classified as third-generation semiconductors. Their spectral range spans the entire spectrum from the near-infrared and visible light regions to the deep ultraviolet, endowing them with significant application value in the field of optoelectronics. A blue laser is defined as a laser device with a wavelength falling within the 400 nm to 500 nm range that emits blue light. GaN-based blue lasers are characterized by low driving power consumption, high output energy, compact size, and stable performance; consequently, they possess extensive application potential and research value within the optoelectronics sector. Exhibiting superior directionality, monochromaticity, and high brightness, these lasers are suitable for a wide array of fields, including displays, materials processing, communications, optical data storage, medical applications, and the life sciences. This report focuses primarily on the global and Chinese markets. Upstream: This segment primarily comprises suppliers of materials?such as GaN substrates/epitaxial wafers, metal-organic sources, and high-purity gases?as well as manufacturers of precision equipment, including lithography machines and etching systems. The quality of the substrate and the epitaxial growth process directly determine the light emission efficiency, wavelength consistency, and operational lifespan of the laser chip. Downstream: This segment targets equipment integrators and end-users in fields such as laser displays, industrial processing (specifically copper welding and cutting), optical communications, medical aesthetics, scientific research, and military applications. Sales channels include manufacturers of laser modules, providers of system-level solutions,

and procurement departments within scientific research institutions.

Globally, the average unit price for GaN-based blue lasers stands at \$1,050 per unit, with an annual sales volume of approximately 160,000 units. Global production capacity currently totals 200,000 units, and the industry maintains a profit margin of 20%.

Looking ahead, the global GaN-based blue laser market is poised for a profound evolution toward ultra-high power outputs, shorter wavelengths, and photonic integration. Driven by surging demand in Micro-LED displays, automotive LiDAR systems, and the processing of highly reflective copper materials, products are continuously pushing the boundaries of power output and beam quality. Concurrently, the technology is iterating toward cutting-edge innovations such as non-polar substrates and quantum dot gain regions. The trend toward intelligent manufacturing is accelerating, with AI technologies increasingly leveraged to enhance production quality inspection and optimize thermal management systems. The Asia-Pacific region—specifically China, Japan, and South Korea—continues to dominate global production capacity and innovation, capitalizing on its strengths in consumer electronics and automotive manufacturing, while Europe and North America focus primarily on high-end medical and customized military/defense markets.

This report studies the global Gallium Nitride-Based Blue Laser production, demand, key manufacturers, and key regions.

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

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

Global Gallium Nitride-Based Blue Laser total production and demand, 2021-2032, (Units)

Global Gallium Nitride-Based Blue Laser total production value, 2021-2032, (USD Million)

Global Gallium Nitride-Based Blue Laser production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Gallium Nitride-Based Blue Laser consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Gallium Nitride-Based Blue Laser domestic production, consumption,

key domestic manufacturers and share

Global Gallium Nitride-Based Blue Laser production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Gallium Nitride-Based Blue Laser production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Gallium Nitride-Based Blue Laser production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Gallium Nitride-Based Blue Laser 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 Laserline, Panasonic, Coherent, Shimazu, BWT, CNI Laser, Beijing Ranbond Technology, Qingxuan, CrystaLaser, 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 Gallium Nitride-Based Blue Laser market

### **Detailed Segmentation:**

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

Global Gallium Nitride-Based Blue Laser Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gallium Nitride-Based Blue Laser Market, Segmentation by Type:

Single Mode

Multi-Mode

Global Gallium Nitride-Based Blue Laser Market, Segmentation by Structure:

Single-Tube Type

Bar Type

Stacked Type

Global Gallium Nitride-Based Blue Laser Market, Segmentation by Output Power Level:

Low Power Type

Medium Power Type

High Power Type

Global Gallium Nitride-Based Blue Laser Market, Segmentation by Application:

Materials Processing and Lithography

Communications and Optical Storage

Scientific Research and Military

Instruments and Sensors

Others

#### Companies Profiled:

Laserline

Panasonic

Coherent

Shimazu

BWT

CNI Laser

Beijing Ranbond Technology

Qingxuan

CrystaLaser

#### **Key Questions Answered:**

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

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