

# Global 1064nm Infrared Laser Modules Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 1064nm Infrared Laser Modules market size is expected to reach \$ 2442 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

In 2025, global 1064nm Infrared Laser Module output reached about 19 million units and global capacity of around 23 million units. The average price is about USD 70 per unit, with gross margins near 42%. 1064nm Infrared Laser Modules are semiconductor- or solid-state-based laser systems that emit near-infrared light at a wavelength of 1064 nanometers, commonly generated using Nd:YAG, fiber laser, diode-pumped solid-state (DPSS), or ytterbium-based laser technologies. These modules are widely used in industrial processing, LiDAR, medical aesthetics, military rangefinding, spectroscopy, optical sensing, semiconductor manufacturing, and scientific instrumentation because 1064nm lasers provide high beam quality, deep material penetration, strong pulse energy, and excellent compatibility with fiber-optic and nonlinear optical systems. The supply chain begins upstream with raw materials and core optical components including laser crystals (Nd:YAG, Yb:YAG), laser diodes, optical fibers, nonlinear crystals, precision optics, mirrors, lenses, photonic chips, semiconductor wafers, cooling systems, and electronic driver ICs supplied by specialty material and photonics companies. Midstream manufacturers integrate these components into complete 1064nm infrared laser modules through optical alignment, packaging, thermal management, wavelength stabilization, pulse-control engineering, and reliability testing. Downstream applications include laser marking and cutting equipment, autonomous vehicle LiDAR systems, cosmetic and dermatology devices, military targeting systems, optical communication instruments, biomedical imaging systems, and advanced research laboratories across industrial, automotive, aerospace, defense, healthcare, semiconductor, and scientific sectors.

This report studies the global 1064nm Infrared Laser Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1064nm Infrared Laser Modules 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 1064nm Infrared Laser Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1064nm Infrared Laser Modules total production and demand, 2021-2032, (K Units)

Global 1064nm Infrared Laser Modules total production value, 2021-2032, (USD Million)

Global 1064nm Infrared Laser Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 1064nm Infrared Laser Modules consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 1064nm Infrared Laser Modules domestic production, consumption, key domestic manufacturers and share

Global 1064nm Infrared Laser Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 1064nm Infrared Laser Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 1064nm Infrared Laser Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 1064nm Infrared Laser Modules 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 Coherent, IPG Photonics, TRUMPF, MKS Instruments, nLIGHT, Hamamatsu Photonics, Wuhan Raycus, Maxphotonics, JPT Laser, Focuslight, 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 1064nm Infrared Laser Modules market

## Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 1064nm Infrared Laser Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global 1064nm Infrared Laser Modules Market, Segmentation by Type:

Air-Cooled Modules

Water-Cooled Modules

Thermoelectric-Cooled Modules

## Global 1064nm Infrared Laser Modules Market, Segmentation by Repetition Frequency:

10 MHz

Global 1064nm Infrared Laser Modules Market, Segmentation by Application:

Semiconductor

Industrial

Medical

Aerospace & Defense

Automotive

Others

Companies Profiled:

Coherent

IPG Photonics

TRUMPF

MKS Instruments

nLIGHT

Hamamatsu Photonics

Wuhan Raycus

Maxphotonics

JPT Laser

Focuslight

Lumibird

TOPTICA

NKT Photonics

Fujikura

Thorlabs

Amplitude Laser

El.En.

H?BNER Photonics

Photonics Industries

InnoLas Laser

#### Key Questions Answered:

1. How big is the global 1064nm Infrared Laser Modules market?
2. What is the demand of the global 1064nm Infrared Laser Modules market?
3. What is the year over year growth of the global 1064nm Infrared Laser Modules market?
4. What is the production and production value of the global 1064nm Infrared Laser Modules market?
5. Who are the key producers in the global 1064nm Infrared Laser Modules market?
6. What are the growth factors driving the market demand?

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