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Global 1064nm Laser Ranging Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 1064nm Laser Ranging Module market size was valued at US$ 15.43 million in 2025 and is forecast to a readjusted size of US$ 26.14 million by 2032 with a CAGR of 8.0% during review period.

1064nm Laser Ranging Module refers to an integrated optoelectronic measurement module that uses 1064nm near-infrared pulsed laser as the transmission source and calculates target distance through time-of-flight measurement of reflected laser signals. The module integrates key components including 1064nm laser sources, optical emission and receiving systems, photodetectors, signal processing circuits, control interfaces, and data output units. With high measurement accuracy, long-distance detection capability, strong environmental adaptability, and rapid response characteristics, 1064nm laser ranging modules are primarily designed for professional-grade applications requiring high-performance distance measurement, including military and defense systems, unmanned platforms, aerospace equipment, industrial measurement, surveying, and security monitoring. The research scope focuses on commercialized 1064nm laser ranging modules based on solid-state laser, DPSS, and fiber laser technology platforms.

Key Findings

Global production reached approximately 11,500 units of 1064nm laser ranging modules in 2025

Average market price was approximately US$1,300 per unit in 2025

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Global production capacity reached approximately 14,300 units in 2025

Industry average gross margin reached approximately 35%

Military and defense applications represent the core demand segment for high-performance modules

Market Trends

The 1064nm laser ranging module industry is developing toward higher measurement distance, improved precision, smaller form factors, and stronger system integration capabilities. Traditional Nd:YAG solid-state laser solutions continue to serve high-energy ranging applications, while DPSS and fiber laser-based 1064nm platforms are gaining attention due to advantages in efficiency, stability, and integration flexibility. Demand from unmanned aerial vehicles, autonomous robotic systems, aerospace platforms, and advanced defense equipment is accelerating the adoption of compact and lightweight ranging modules. At the same time, improvements in InGaAs detector technology, optical coating processes, signal processing algorithms, and electronic control systems are enhancing measurement reliability under complex atmospheric conditions. Future product development is expected to focus on longer detection distances, multi-function integration, lower power consumption, and intelligent sensing capabilities.

Market Dynamics

Drivers

The growth of the 1064nm laser ranging module market is primarily driven by increasing demand for precision distance measurement in defense modernization programs, unmanned systems, and aerospace applications. The expansion of autonomous platforms requires compact sensing modules with high accuracy and strong environmental adaptability, while the replacement of traditional measurement solutions with advanced electro-optical systems continues to create demand. In addition, the development of intelligent manufacturing, terrain mapping, and industrial automation provides additional application opportunities for high-performance ranging technologies.

Restraints

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The market faces limitations from relatively high manufacturing costs, strict optical alignment requirements, and complex safety control requirements associated with high-energy infrared laser systems. Compared with consumer-oriented ranging technologies, 1064nm laser modules require advanced optical components, specialized laser sources, and high-performance detectors, resulting in higher system costs. In addition, professional application markets typically require long certification cycles and customized engineering support, which may limit rapid market expansion.

Opportunities

Future opportunities are expected to emerge from the increasing deployment of unmanned aerial vehicles, autonomous ground vehicles, space exploration systems, and advanced surveillance platforms. The integration of 1064nm laser ranging modules with LiDAR, electro-optical reconnaissance systems, and intelligent navigation platforms can expand their application boundaries. Emerging demand in precision agriculture, geological surveying, infrastructure inspection, and industrial robotics also provides potential growth opportunities for compact and reliable ranging solutions.

Challenges

The industry faces challenges including technological competition from alternative wavelength solutions such as 905nm and 1550nm ranging systems, supply chain constraints for high-performance laser components, and increasing requirements for miniaturization and cost reduction. Manufacturers must continuously improve optical efficiency, reliability, production consistency, and integration capabilities to maintain competitiveness in professional high-end markets.

Industry Chain Analysis

The 1064nm laser ranging module industry chain covers upstream laser materials, optical components, semiconductor detectors, electronic components, and precision manufacturing equipment; midstream module manufacturers focus on laser source integration, optical assembly, circuit design, calibration, and system-level optimization; downstream markets include defense equipment manufacturers, aerospace companies, unmanned system developers, industrial automation enterprises, and surveying service providers. Value creation mainly occurs through improvements in laser performance, optical efficiency, signal processing capability, and system integration. High-performance suppliers with strong engineering capabilities can achieve higher profitability through customized solutions and specialized applications.

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Value Chain Analysis

The value chain of 1064nm laser ranging modules is concentrated around advanced optical technology integration. Upstream suppliers provide critical components such as Nd:YAG crystals, laser diodes, optical lenses, coatings, detectors, and electronic control devices. Module manufacturers create value through precision optical alignment, laser driving technology, ranging algorithms, environmental adaptation design, and reliability testing. Downstream customers prioritize measurement accuracy, operational stability, environmental resistance, and system compatibility, making technical capability and application experience important competitive factors.

Segment Insights

By laser technology platform, Nd:YAG solid-state laser ranging modules remain an important segment due to their high pulse energy and mature application foundation in defense and aerospace systems. DPSS 1064nm ranging modules offer advantages in compact design, efficiency, and integration, making them increasingly suitable for mobile and unmanned platforms. Fiber laser 1064nm ranging modules provide potential advantages in stability, lifetime, and power scalability, supporting future development in longer-range and high-performance applications. By ranging distance, medium-range and long-range modules represent the major commercial opportunity due to stronger demand from professional measurement and defense applications.

Downstream Market Opportunities

Military and defense remain the largest application field for 1064nm laser ranging modules, supported by demand for target detection, fire-control systems, reconnaissance equipment, and battlefield awareness platforms. Unmanned systems represent a rapidly expanding application area as drones, autonomous vehicles, and robotic platforms require accurate perception and navigation capabilities. Aerospace, industrial measurement, and surveying applications provide additional opportunities, particularly where long-distance measurement, high precision, and environmental adaptability are required.

Regional Insights

North America and Europe maintain strong positions in high-end defense and aerospace applications due to established electro-optical technology capabilities and demand from advanced equipment programs. China represents one of the most active manufacturing and application markets, supported by growth in defense modernization,

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unmanned systems, and domestic optoelectronic manufacturing capabilities. Japan, South Korea, and Taiwan contribute through precision optical components, semiconductor technologies, and specialized manufacturing capabilities. Emerging markets in Southeast Asia and other regions are expected to provide incremental opportunities through infrastructure development, security applications, and industrial automation.

Competitive Landscape Analysis

The global 1064nm laser ranging module market demonstrates a specialized and technology-intensive competitive structure. Leading participants include professional laser and optoelectronic companies with capabilities in laser source development, optical integration, and customized module production. European companies such as Jenoptik maintain advantages in precision optical systems and industrial applications, while Chinese manufacturers including Lumispot Technology, ERDI TECH, Seakeda, and Jioptik are strengthening their positions through domestic supply chain integration and cost competitiveness. Competition is primarily focused on laser efficiency, measurement distance, module miniaturization, reliability, customization capability, and support for defense and industrial customers.

Report Scope

This report is a detailed and comprehensive analysis for global 1064nm Laser Ranging Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 1064nm Laser Ranging Module market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global 1064nm Laser Ranging Module market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

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Global 1064nm Laser Ranging Module market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global 1064nm Laser Ranging Module market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 1064nm Laser Ranging Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 1064nm Laser Ranging Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lumispot Technology, Jioptik, ERDI TECH, Seakeda, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

1064nm Laser Ranging Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Nd:YAG Solid-State Laser Ranging Module

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DPSS 1064nm Ranging Module

Fiber Laser 1064nm Ranging Module

Market segment by Ranging Range

Short-Range 1064nm Ranging Module (<5 km)

Medium-Range 1064nm Ranging Module (5–20 km)

Long-Range 1064nm Ranging Module (>20 km)

Market segment by Application

Military and Defense

Unmanned Systems

Aerospace

Industry and Surveying

Others

Major players covered

Lumispot Technology

Jioptik

ERDI TECH

Seakeda

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Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe 1064nm Laser Ranging Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 1064nm Laser Ranging Module, with price, sales quantity, revenue, and global market share of 1064nm Laser Ranging Module from 2021 to 2026.

Chapter 3, the 1064nm Laser Ranging Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 1064nm Laser Ranging Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and 1064nm Laser Ranging Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 1064nm Laser Ranging Module.

Chapter 14 and 15, to describe 1064nm Laser Ranging Module sales channel, distributors, customers, research findings and conclusion.

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