

Global 1535nm Laser Ranging Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 1535nm Laser Ranging Module market size is expected to reach \$ 724 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

In 2025, the global production of 1535nm laser ranging module reached approximately 120,000 units, with an average global market price of around US\$3,000 per unit. In the same year, the global total production capacity of 1535nm laser ranging module reached 150,000 units. The industry average gross profit margin of this product reached 37%. The 1535nm laser ranging module is a core component of laser ranging based on the 1.535 μ m (1535nm) wavelength range, which is safe for the human eye. It primarily utilizes an erbium-doped glass laser to emit short-pulse laser light and calculates the target distance using the Time-of-Flight (ToF) method, achieving high-precision, long-range ranging. Because the 1535nm wavelength range falls within the safe window for the human eye, it offers higher safety, stronger atmospheric penetration, and a greater detection range compared to the 905nm and 1064nm wavelength ranges. A typical 1535nm ranging module consists of an erbium-doped glass laser, an APD detector, a laser drive circuit, a signal processing system, an optical transmission and reception system, and embedded algorithms, making it a crucial core component of modern optoelectronic reconnaissance and precision detection systems.

The 1535nm laser ranging module industry chain is a typical 'optoelectronics + military + semiconductor' composite industry chain. Its upstream mainly includes suppliers of core components such as erbium-doped glass crystals, semiconductor pumped lasers (LDs), APD/InGaAs detectors, nonlinear optical devices, precision optical lenses, FPGA/DSP chips, and high-reliability packaging materials. High-performance erbium-doped glass and InGaAs detectors are key technological barriers. The midstream

consists of 1535nm laser ranging module manufacturers, responsible for laser design, optomechanical structure integration, drive control, thermal management, and algorithm development. Representative companies include ERDI, Lumispot, Newtron, and Raytron from China, and military companies from Europe, the US, and Japan such as Thales, Leonardo, and Northrop Grumman. Downstream applications are concentrated in military optoelectronic systems, drones, vehicle fire control, border security, intelligent driving LiDAR, industrial surveying, robot navigation, and aerospace. The military market still accounts for the majority of global demand, while autonomous driving and high-end LiDAR are becoming the fastest-growing emerging markets. The entire industry chain is characterized by 'high barriers to entry in upstream materials, accelerated localization of midstream modules, and expansion of military-civilian integration downstream.'

The 1535nm laser ranging module industry is in a phase of rapid growth, driven primarily by global military modernization, the surge in drone production, upgrades to LiDAR for intelligent driving, and increased demand for high-precision sensing. Compared to traditional 905nm solutions, 1535nm technology offers longer detection ranges, higher eye safety levels, and stronger adaptability to harsh weather conditions, thus gradually becoming the mainstream technology for high-end laser ranging and long-range LiDAR. Currently, the global defense sector is undergoing large-scale upgrades to optoelectronic reconnaissance and precision strike systems, while the demand for miniaturized, lightweight, and highly reliable ranging modules from drones, vehicle platforms, and individual soldier equipment continues to grow. Simultaneously, in the field of autonomous driving, 1535nm LiDAR is considered one of the key directions for achieving advanced autonomous driving, driving the rapid expansion of the related laser and ranging module market. In the future, with the decline in the cost of erbium-doped glass lasers, the maturity of fiber optic technology, and the acceleration of domestic substitution, 1535nm ranging modules are expected to gradually penetrate from the military industry to the industrial, automotive, robotics, and smart city sectors. The industry as a whole will present a dual-driven pattern of 'high profits in the military industry + rapid expansion in the civilian sector'.

This report studies the global 1535nm Laser Ranging Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1535nm Laser Ranging Module 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 1535nm Laser Ranging Module

that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1535nm Laser Ranging Module total production and demand, 2021-2032, (K Units)

Global 1535nm Laser Ranging Module total production value, 2021-2032, (USD Million)

Global 1535nm Laser Ranging Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 1535nm Laser Ranging Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 1535nm Laser Ranging Module domestic production, consumption, key domestic manufacturers and share

Global 1535nm Laser Ranging Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 1535nm Laser Ranging Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 1535nm Laser Ranging Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 1535nm Laser Ranging Module 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 Electro Optical Components (EOC), Lumibird Photonics Sweden AB, Frankfurt Laser Company (FLC), Safran Group, Elbit Systems, B.E. Meyers & Co., Jenoptik, JIOPTICS, Erdi Tech Ltd, RayThink, 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 1535nm Laser Ranging Module 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 1535nm Laser Ranging Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 1535nm Laser Ranging Module Market, Segmentation by Type:

Property Insurance

Product Liability Insurance

Public Liability Insurance

Global 1535nm Laser Ranging Module Market, Segmentation by Market Attributes:

Erbium-Doped Glass Solid-State Laser Module

Fiber Laser Ranging Module

Semiconductor-Pumped Laser Module

Global 1535nm Laser Ranging Module Market, Segmentation by Application:

Military

Automotive

Aerospace

Others

Companies Profiled:

Electro Optical Components (EOC)

Lumibird Photonics Sweden AB

Frankfurt Laser Company (FLC)

Safran Group

Elbit Systems

B.E. Meyers & Co.

Jenoptik

JIOPTICS

Erdi Tech Ltd

RayThink

Chongqing Maipusi Technology Co., Ltd.

Lumisource

Chengdu JRT Meter Technology Co., Ltd

Lumispot Technology Group

Key Questions Answered:

1. How big is the global 1535nm Laser Ranging Module market?
2. What is the demand of the global 1535nm Laser Ranging Module market?
3. What is the year over year growth of the global 1535nm Laser Ranging Module market?
4. What is the production and production value of the global 1535nm Laser Ranging Module market?
5. Who are the key producers in the global 1535nm Laser Ranging Module market?
6. What are the growth factors driving the market demand?

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