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

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Abstracts

The global 1535nm Eye-safe Ranging Module market size is expected to reach $ 714 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

In 2025, the global production of 1535nm eye-safe ranging module reached approximately 104,600 units, with an average global market price of around US$3,500 per unit. In the same year, the global total production capacity of 1535nm eye-safe ranging module reached 130,700 units. The industry average gross profit margin of this product reached 38%.The 1535nm eye-safe ranging module is a core component of laser ranging based on the 1.535?m (1535nm) near-infrared eye-safe wavelength band. It primarily utilizes an erbium-doped glass laser or a 1.5?m fiber laser to emit short-pulse lasers, measuring the time difference between the laser's round trip to the target using the time-of-flight method, thus achieving high-precision, long-distance ranging. Because the 1535nm band falls within the internationally recognized eye-safe window, it offers a higher safety level, longer detection range, better atmospheric penetration, and a lower probability of detection by night vision devices compared to 905nm and 1064nm lasers. Therefore, it is widely used in military fire control systems, UAV optoelectronic pods, border surveillance, LiDAR, autonomous driving, high-end surveying, aerospace, and special security fields. This module typically integrates a laser emitter, APD/InGaAs detector, optical transceiver system, drive control circuitry, signal processing algorithms, and communication interfaces, making it a crucial core component of modern high-end optoelectronic detection systems.

The 1535nm eye-safe ranging module industry chain is a typical high-end optoelectronics and military industry chain. The upstream mainly includes key components such as erbium-doped glass crystals, semiconductor-pumped lasers (LDs),

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InGaAs/APD detectors, FPGA/DSP chips, precision optical lenses, narrowband filters, laser drive circuits, and high-reliability packaging materials. Among these, erbium-doped glass lasers and InGaAs detectors are the core links with the highest technological barriers and the largest cost proportion. The midstream consists of 1535nm ranging module manufacturers, responsible for laser design, optomechanical-thermal structure integration, algorithm development, reliability testing, and system packaging. The downstream is mainly used in military optoelectronic systems, drones, vehicle fire control, border surveillance, intelligent driving LiDAR, robot perception, industrial surveying, and aerospace fields. Currently, the military market still accounts for the majority of global demand, but with the rapid development of autonomous driving, high-end robots, and long-range LiDAR, the civilian market share is continuously increasing, and the entire industry chain shows a development trend of 'military driving high profits and LiDAR promoting large-scale production.'

The 1535nm eye-safe ranging module industry is experiencing rapid growth, driven by global military modernization, the explosive growth of drones, the iteration of LiDAR technology for intelligent driving, and the increasing demand for high-end sensing. Compared to traditional 905nm laser solutions, 1535nm technology offers advantages such as longer detection range, higher laser energy limits, stronger adaptability to harsh weather conditions, and compliance with international eye safety standards. Therefore, it is gradually becoming the mainstream technology for high-end laser ranging and long-range LiDAR. In the military sector, countries are accelerating the upgrading of fire control systems, drone reconnaissance systems, and border surveillance equipment, driving continued growth in demand for 1535nm ranging modules. In the civilian sector, advanced autonomous driving, robotics, intelligent transportation, and industrial automation are also propelling the rapid commercialization of 1.5?m LiDAR and long-range ranging technologies. In the future, with the decline in the cost of erbium-doped glass lasers, the acceleration of domestic substitution, and the maturity of fiber optic and miniaturization technologies, 1535nm ranging modules will gradually expand from the high-end military market to a wider range of industrial and consumer applications. The industry is expected to enter a dual-driven era of 'stable growth in high-end military applications + large-scale production of civilian LiDAR'.

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

This report is a detailed and comprehensive analysis of the world market for 1535nm Eye-safe 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

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and competition, as well as details the characteristics of 1535nm Eye-safe Ranging Module that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global 1535nm Eye-safe Ranging Module total production and demand, 2021-2032, (K Units)
Global 1535nm Eye-safe Ranging Module total production value, 2021-2032, (USD Million)
Global 1535nm Eye-safe Ranging Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global 1535nm Eye-safe Ranging Module consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: 1535nm Eye-safe Ranging Module domestic production, consumption, key domestic manufacturers and share
Global 1535nm Eye-safe Ranging Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global 1535nm Eye-safe Ranging Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global 1535nm Eye-safe Ranging Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 1535nm Eye-safe 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 Safran Group, Elbit Systems, Lumibird Photonics Sweden AB, B.E. Meyers & Co., Jenoptik, Electro Optical Components (EOC), Frankfurt Laser Company (FLC), Erdi Tech Ltd, RayThink, Lumisource, 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 Eye-safe 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

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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 Eye-safe Ranging Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 1535nm Eye-safe Ranging Module Market, Segmentation by Type:

Short-range (1–3km)

Medium-range (3–8km)

Long-range (8–15km)

Ultra-long-range (15km+)

Global 1535nm Eye-safe Ranging Module Market, Segmentation by Market Attributes:

Military Grade

Industrial Grade

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Automotive Grade

Global 1535nm Eye-safe Ranging Module Market, Segmentation by Application:

Military

Aerospace

Automotive

Robotics

Others

Companies Profiled:

Safran Group

Elbit Systems

Lumibird Photonics Sweden AB

B.E. Meyers & Co.

Jenoptik

Electro Optical Components (EOC)

Frankfurt Laser Company (FLC)

Erdi Tech Ltd

RayThink

Lumisource

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Lumispot Technology Group

JIOPTICS

Chengdu JRT Meter Technology Co., Ltd

Chongqing Maipusi Technology Co., Ltd.

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

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