

Global 1535nm Eye-safe 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 1535nm Eye-safe Ranging Module market size was valued at US\$ 377 million in 2025 and is forecast to a readjusted size of US\$ 714 million by 2032 with a CAGR of 9.6% during review period.

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 μ m (1535nm) near-infrared eye-safe wavelength band. It primarily utilizes an erbium-doped glass laser or a 1.5 μ 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), 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 1.5m 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 is a detailed and comprehensive analysis for global 1535nm Eye-safe 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 1535nm Eye-safe Ranging Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 1535nm Eye-safe 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

Global 1535nm Eye-safe 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 1535nm Eye-safe 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 1535nm Eye-safe 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 1535nm Eye-safe 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 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.

Market Segmentation

1535nm Eye-safe 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 segment by Type

Short-range (1–3km)

Medium-range (3–8km)

Long-range (8–15km)

Ultra-long-range (15km+)

Market segment by Market Attributes

Military Grade

Industrial Grade

Automotive Grade

Market segment by Application

Military

Aerospace

Automotive

Robotics

Others

Major players covered

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

Lumispot Technology Group

JIOPTICS

Chengdu JRT Meter Technology Co., Ltd

Chongqing Maipusi Technology Co., Ltd.

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 1535nm Eye-safe Ranging Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 1535nm Eye-safe Ranging Module, with price, sales quantity, revenue, and global market share of 1535nm Eye-safe Ranging Module from 2021 to 2026.

Chapter 3, the 1535nm Eye-safe Ranging Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 1535nm Eye-safe 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 1535nm Eye-safe Ranging Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 1535nm Eye-safe Ranging Module.

Chapter 14 and 15, to describe 1535nm Eye-safe Ranging Module sales channel, distributors, customers, research findings and conclusion.

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