

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G9C87741053AEN.html>

Date: August 2026

Pages: 113

Price: US\$ 4,480.00 (Single User License)

ID: G9C87741053AEN

Abstracts

The global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module market size is expected to reach \$ 79.84 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

In 2025, global 1535nm laser ranging module and 1550nm laser ranging module production reached approximately 35,390 units, with an average global market price of around US\$ 1,052 per unit. In 2025, the global 's total production capacity of 1535nm laser ranging module and 1550nm laser ranging module reached 44,230 units. The industry average gross profit margin of this product has reached 26%. 1535nm/1550nm laser ranging modules are high-precision optoelectronic ranging components that utilize a pulsed laser or modulated continuous-wave (CW) laser operating at a center wavelength within the near-infrared communication band (approximately 1535nm to 1550nm) as the emission source. They function by emitting laser pulses characterized by low divergence angles and high energy density, receiving the echo signals reflected from targets, and calculating the target distance using techniques such as Time of Flight (TOF), phase-shift ranging, or Frequency Modulated Continuous Wave (FMCW). Typically composed of a 1550nm/1535nm laser, an optical collimation system, a detector (e.g., InGaAs APD, SPAD, or PIN detector), drive circuitry, a signal processing chip, control interfaces, and structural components, these modules offer advantages such as long-range detection, high ranging accuracy, low interference from sunlight, excellent atmospheric transmission performance, and enhanced eye safety. They are widely applied in fields including autonomous driving, robotics, drones, aerospace, intelligent transportation, industrial measurement, security surveillance, topographic mapping, defense, and space exploration. Both 1535nm and 1550nm fall within the eye-safe laser wavelength range; however, because 1550nm lies within the mature

wavelength band for fiber-optic communication?supported by a more developed supply chain for lasers, detectors, and optical components?it sees more extensive application in long-range LiDAR and high-end ranging equipment.

Driven by the rapid development of intelligent driving, the low-altitude economy, robotics, unmanned systems, and the aerospace industry, the demand for long-range, high-precision, all-weather environmental sensing technologies continues to rise. Leveraging their long-range detection capabilities, high reliability, and eye-safety advantages, 1535nm/1550nm laser ranging modules are emerging as a key technological pathway in the high-end ranging sector. Compared to 905nm laser ranging solutions, the 1535nm/1550nm wavelength range allows for higher peak emission energy within the same safety limits, thereby enabling longer-range measurements. This offers distinct advantages in applications such as high-speed autonomous driving, drone obstacle avoidance, long-range target identification, satellite formation flying, and space debris monitoring. As technologies?including solid-state lasers, InGaAs detectors, MEMS optical scanning, FMCW ranging, and AI signal processing algorithms?continue to mature, 1535nm/1550nm laser ranging modules will evolve toward greater miniaturization, lower costs, higher integration, and increased intelligence. Meanwhile, the intelligent upgrading of new energy vehicles, the commercial rollout of robotaxis, and the large-scale adoption of unmanned delivery and industrial robots will drive rapid growth in the civilian market; simultaneously, the aerospace, defense, and space infrastructure sectors will continue to fuel demand for high-performance products. In the coming years, 1535nm/1550nm laser ranging modules are expected to experience robust growth in high-end LiDAR, long-range surveying and mapping, unmanned systems, and space applications, emerging as a high-potential segment within the near-infrared laser ranging industry.

Report Scope

This report studies the global 1535nm Laser Ranging Module and 1550nm 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 1550nm 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 and 1550nm Laser Ranging Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module total production and demand, 2021-2032, (Units)

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module total production value, 2021-2032, (USD Million)

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: 1535nm Laser Ranging Module and 1550nm Laser Ranging Module domestic production, consumption, key domestic manufacturers and share

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global 1535nm Laser Ranging Module and 1550nm 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 Jenoptik, ASELSAN, Wuxi LumiSource Technologies Co., Ltd., Fujian Hitronics Technologies, Inc., Jingruite Measure, Lumispot Technologies Co., Ltd., Raytron Technology Co., Ltd., Jiopics, Erdi Tech, 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 and 1550nm Laser Ranging Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (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 and 1550nm Laser Ranging Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module Market, Segmentation by Type:

1535nm Laser Ranging Module

1550nm Laser Ranging Module

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module Market, Segmentation by Measurement Distance:

Short Distance

Medium Distance

Long Distance

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module Market,
Segmentation by Detector Type:

InGaAs Detector 1550nm Ranging Module

APD (Avalanche Photodiode) 1550nm Ranging Module

Others

Global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module Market,
Segmentation by Application:

Military and Defense

Unmanned Systems

Aerospace

Others

Companies Profiled:

Jenoptik

ASELSAN

Wuxi LumiSource Technologies Co., Ltd.

Fujian Hitronics Technologies, Inc.

Jingruite Measure

Lumispot Technologies Co., Ltd.

Raytron Technology Co., Ltd.

Jioptics

Erdi Tech

Key Questions Answered:

1. How big is the global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module market?
2. What is the demand of the global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module market?
3. What is the year over year growth of the global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module market?
4. What is the production and production value of the global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module market?
5. Who are the key producers in the global 1535nm Laser Ranging Module and 1550nm Laser Ranging Module market?
6. What are the growth factors driving the market demand?

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