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Global 1570nm Laser Ranging Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 1570nm Laser Ranging Module market size is expected to reach $ 323 million by 2032, rising at a market growth of 12.6% CAGR during the forecast period (2026-2032).

The global output of 1570nm laser ranging modules in 2025 will be approximately 4,200 units, and the global average market price is approximately US$32,000 per 1570nm laser ranging module. In 2025, the total global production capacity of 1570nm laser ranging modules will reach approximately 6,500 units. The average gross profit margin of this product industry reaches approximately 38%. The 1570nm laser ranging module is an optoelectronic component that utilizes a short-wave infrared laser (wavelength of approximately 1570 nm) as the emission source. It calculates distance by measuring the time-of-flight (TOF) of laser pulses—from emission and reflection off the target to their return and detection. The module typically comprises a 1570nm laser, transmission and reception optical systems, an InGaAs photodetector, laser drive circuitry, a timing unit, signal processing algorithms, and communication interfaces. The 1570nm wavelength falls within the 1.5?m "eye-safe" band; laser energy at this wavelength is primarily absorbed by the anterior tissues of the eye rather than focusing on the retina. Consequently, provided that output energy, pulse width, repetition rate, and beam divergence meet IEC 60825-1 standards, the module can achieve a Class 1 (or equivalent) eye-safety rating. Unlike the more common 1535nm or 1550nm solutions, 1570nm modules often employ Optical Parametric Oscillators (OPOs), Erbium-based solid-state lasers, or other wavelength-conversion techniques. They are typically designed for long-range measurement of natural targets (exceeding 10–30 km) rather than for mass-market consumer ranging applications. Commercially available 1570nm OPO modules demonstrate ranging capabilities of approximately 15–35 km against highly reflective targets (such as buildings) and support functions including single-shot

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and continuous ranging, target selection (e.g., first/last return), and self-diagnostics.

The upstream supply chain for 1570nm laser ranging modules primarily includes pump semiconductor lasers, solid-state gain media, nonlinear crystals (for OPOs), Q-switching components, laser power supplies, and thermal management materials. Some products generate a 1064nm (or other near-infrared) laser first and then convert it to 1570nm pulses via nonlinear processes like OPO; others may directly produce output near 1.5?m using Erbium-doped glass, Erbium-Ytterbium co-doped media, or fiber laser technology. The receiver typically employs an InGaAs PIN or InGaAs APD (Avalanche Photodiode) with a spectral response covering approximately 950–1700 nm, enabling the detection of weak 1570nm return signals. APDs, which offer internal gain, are particularly well-suited for measuring targets at long ranges or those with low reflectivity. The upstream sector encompasses components such as large-aperture receiving lenses, 1570nm narrow-band filters, beam splitters, laser windows, precision optical coatings, time-to-digital converters (TDCs), and high-speed front-end amplifiers; the quality of these components directly impacts pulse energy, echo signal-to-noise ratio, temperature stability, and long-range measurement capabilities. The midstream sector consists primarily of manufacturers of long-range laser ranging modules, solid-state laser enterprises, and optoelectronic system integrators; they are responsible for 1570nm laser source design, integration of pumping and wavelength conversion, alignment of transmitting and receiving optical paths, detection circuitry, ranging algorithms, structural packaging, and safety verification. During operation, the laser emits high-peak-power, short-pulse-width 1570nm pulses; an InGaAs detector captures signals reflected from distant targets, and timing circuitry calculates the distance based on the round-trip time. Key technical barriers in the midstream sector center on OPO conversion efficiency and stability, nanosecond-level pulse control, alignment of transmitting and receiving optical axes, suppression of high-intensity solar background noise, acquisition of low-reflectivity targets, multi-echo identification, and reliability under wide temperature ranges, vibration, and shock. As ultra-long-range products typically require higher pulse energy and larger receiving apertures, 1570nm modules generally exceed standard 1535nm micro-modules in terms of size, weight, power consumption, and cost. Existing products support single-pulse ranging, continuous ranging, range gating, output for near/far targets, and self-testing, demonstrating an evolution from simple distance output toward complex target processing and system diagnostics. Downstream applications for 1570nm laser ranging modules include long-range optoelectronic gimbals, airborne or shipborne optoelectronic systems, UAV payloads, border and coastal surveillance, maritime observation, surveying and mapping equipment, and other high-reliability long-range sensing platforms. Within optoelectronic

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observation systems, these modules can be integrated with visible-light cameras, thermal imagers, SWIR cameras, electronic compasses, inclinometers, and GNSS units to provide target distance and spatial coordinates; in UAV and aerial platforms, they facilitate long-range target positioning, topographic surveying, and multi-sensor data fusion; in maritime scenarios, they are suitable for measuring vessels, shorelines, and large-scale structures. Compared to 1550nm modules, the 1570nm wavelength is not mainstream in the mass-standardized market; however, it offers unique value in projects requiring higher pulse energy, ultra-long range, low visibility, and specific system compatibility. Future industry trends point toward higher conversion efficiency, miniaturized OPO systems, higher-sensitivity InGaAs APDs, low-power thermal management, and digital multi-target echo processing, alongside the gradual emergence of standardized interfaces and modular platform products. The 1.5?m band supports higher single-pulse energy levels while maintaining safety margins for the human eye—a key technical advantage that makes it ideal for long-range ranging applications.

The 1570 nm wavelength falls within the 1.5 ?m "eye-safe" band; provided safety standards are met, higher single-pulse energy can be utilized, making it suitable for ranging targets—such as buildings, vehicles, ships, and natural features—at distances exceeding 10 kilometers. Existing 1570 nm OPO modules offer ranges of approximately 15–35 km and support features such as single-shot and continuous ranging, range gating, and the output of data for both near and far targets. This highlights their primary value in ultra-long-range applications, high reliability, and target identification against complex backgrounds, rather than direct competition with 905 nm consumer-grade modules. Demand for these modules will continue to be driven by requirements for long-range optoelectronic observation, coastal and border surveillance, and upgrades to airborne and shipborne optoelectronic systems.

Unmanned aerial vehicles (UAVs), unmanned ground vehicles (UGVs), optoelectronic gimbals, and maritime observation platforms increasingly require the integration of ranging data with inputs from visible light, thermal imaging, short-wave infrared (SWIR), GNSS, electronic compasses, and inertial measurement units (IMUs) to output target coordinates, range variations, and multi-target information. Future 1570 nm modules will increasingly incorporate functions such as range gating, multi-echo identification, target tracking, self-testing, temperature compensation, and digital communication, while utilizing standardized mechanical interfaces and data protocols to shorten system-level development cycles. The professional optoelectronics market is trending toward the convergence of eye-safe laser ranging, multispectral imaging, and navigation/positioning; the emphasis placed by high-end 1550 nm systems on long

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range, low power consumption, and low observability serves as a technical and application benchmark for the development of 1570 nm products.

Currently, 1570 nm modules typically achieve wavelength conversion by combining a diode-pumped solid-state laser with an optical parametric oscillator (OPO). Key technical challenges include nonlinear conversion efficiency, pulse energy stability, crystal temperature control, optical axis alignment, and reliability under shock and vibration. Future products will reduce size, weight, and power consumption through high-efficiency pump modules, integrated OPO cavities, low-loss coatings, and compact thermal management. On the receiver side, the use of InGaAs APDs with lower dark current, lower capacitance, and higher bandwidth will enhance the capability to detect weak return signals over long distances. Hamamatsu's InGaAs APDs offer a spectral response range covering 950–1700 nm and are continuously evolving toward compact surface-mount designs and enhanced reliability, providing the component foundation for the miniaturization and mass production of 1570 nm modules.

Report Scope

This report studies the global 1570nm Laser Ranging Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1570nm 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 1570nm Laser Ranging Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1570nm Laser Ranging Module total production and demand, 2021-2032, (K Units)

Global 1570nm Laser Ranging Module total production value, 2021-2032, (USD Million)

Global 1570nm Laser Ranging Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on

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production site)

Global 1570nm Laser Ranging Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 1570nm Laser Ranging Module domestic production, consumption, key domestic manufacturers and share

Global 1570nm Laser Ranging Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 1570nm Laser Ranging Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 1570nm Laser Ranging Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 1570nm 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, JRT Meter Technology, Lumispot Tech, ERDI TECH, JIOPTICS, NEWTRON Technology, Xinland Group, 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 1570nm 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.

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Global 1570nm Laser Ranging Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global 1570nm Laser Ranging Module Market, Segmentation by Type:

Medium-range (1–5 km)

Medium-to-long Range (5–10 km)

Long-range (10–20 km)

Extra-long Range (20–30 km)

Ultra-long Range (30–40 km and beyond)

Global 1570nm Laser Ranging Module Market, Segmentation by Measurement Frequency:

Single-trigger

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Low-frequency Continuous Ranging

Medium-frequency Continuous Ranging

High-frequency Continuous Ranging

Global 1570nm Laser Ranging Module Market, Segmentation by Ranging Accuracy:

High-precision (approx. ±1–3 meters)

Standard-precision (approx. ±3–5 meters)

Long-range Engineering (approx. ±5–10 meters)

Global 1570nm Laser Ranging Module Market, Segmentation by Laser Technology Route:

Optical Parametric Oscillator (OPO)

Erbium-doped Solid-state Laser

Fiber Laser

Semiconductor Laser and Amplifier

Global 1570nm Laser Ranging Module Market, Segmentation by Application:

Airborne and UAV Electro-Optical Systems

Ground-based Electro-Optical Surveillance and Long-Range Observation Systems

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Shipborne, Maritime, and Coastal Monitoring Systems

Others

Companies Profiled:

Jenoptik

JRT Meter Technology

Lumispot Tech

ERDI TECH

JIOPTICS

NEWTRON Technology

Xinland Group

Key Questions Answered

1. How big is the global 1570nm Laser Ranging Module market?
2. What is the demand of the global 1570nm Laser Ranging Module market?
3. What is the year over year growth of the global 1570nm Laser Ranging Module market?
4. What is the total value of the global 1570nm Laser Ranging Module market?
5. Who are the Major Players in the global 1570nm Laser Ranging Module market?
6. What are the growth factors driving the market demand?

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