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Global 1570nm Laser Ranging Module Market Growth 2026-2032

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Abstracts

The global 1570nm Laser Ranging Module market size is predicted to grow from US$ 131 million in 2025 to US$ 320 million in 2032; it is expected to grow at a CAGR of 13.4% from 2026 to 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

LP Information, Inc. (LPI) ' newest research report, the “1570nm Laser Ranging Module Industry Forecast” looks at past sales and reviews total world 1570nm Laser Ranging Module sales in 2025, providing a comprehensive analysis by region and market sector of projected 1570nm Laser Ranging Module sales for 2026 through 2032. With 1570nm Laser Ranging Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world 1570nm Laser Ranging Module industry.

This Insight Report provides a comprehensive analysis of the global 1570nm Laser Ranging Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 1570nm Laser Ranging Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global 1570nm Laser Ranging Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 1570nm Laser Ranging Module and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

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view of the current state and future trajectory in the global 1570nm Laser Ranging Module.

This report presents a comprehensive overview, market shares, and growth opportunities of 1570nm Laser Ranging Module market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

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)

Segmentation by Measurement Frequency:

Single-trigger

Low-frequency Continuous Ranging

Medium-frequency Continuous Ranging

High-frequency Continuous Ranging

Segmentation by Ranging Accuracy:

High-precision (approx. ±1–3 meters)

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

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

Segmentation by Laser Technology Route:

Optical Parametric Oscillator (OPO)

Erbium-doped Solid-state Laser

Fiber Laser

Semiconductor Laser and Amplifier

Segmentation by Application:

Airborne and UAV Electro-Optical Systems

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

Shipborne, Maritime, and Coastal Monitoring Systems

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

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- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

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The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Jenoptik

JRT Meter Technology

Lumispot Tech

ERDI TECH

JIOPTICS

NEWTRON Technology

Xinland Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global 1570nm Laser Ranging Module market?

What factors are driving 1570nm Laser Ranging Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 1570nm Laser Ranging Module market opportunities vary by end market size?

How does 1570nm Laser Ranging Module break out by Type, by Application?

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