+357 96 030922
info@marketpublishers.com

Global 1570nm Laser Ranging Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G49EEDDFA9B4EN.html
Date: September 2026
Pages: 100
Price: US$ 3,480.00 (Single User License)
ID: G49EEDDFA9B4EN

Abstracts

According to our (Global Info Research) latest study, the global 1570nm Laser Ranging Module market size was valued at US$ 138 million in 2025 and is forecast to a readjusted size of US$ 323 million by 2032 with a CAGR of 12.6% during review period.

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

+357 96 030922
info@marketpublishers.com

highly reflective targets (such as buildings) and support functions including single-shot 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

+357 96 030922
info@marketpublishers.com

equipment, and other high-reliability long-range sensing platforms. Within optoelectronic 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

+357 96 030922
info@marketpublishers.com

navigation/positioning; the emphasis placed by high-end 1550 nm systems on long 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 is a detailed and comprehensive analysis for global 1570nm Laser 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 1570nm Laser Ranging Module market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global 1570nm Laser 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 1570nm Laser Ranging Module market size and forecasts, by Type and by

+357 96 030922
info@marketpublishers.com

Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global 1570nm Laser 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 1570nm Laser 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 1570nm Laser 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 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.

1570nm Laser 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 Segmentation

Market segment by Type

+357 96 030922
info@marketpublishers.com

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)

Market segment by Measurement Frequency

Single-trigger

Low-frequency Continuous Ranging

Medium-frequency Continuous Ranging

High-frequency Continuous Ranging

Market segment by Ranging Accuracy

High-precision (approx. ±1–3 meters)

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

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

Market segment by Laser Technology Route

Optical Parametric Oscillator (OPO)

Erbium-doped Solid-state Laser

Fiber Laser

+357 96 030922
info@marketpublishers.com

Semiconductor Laser and Amplifier

Market segment 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

Major players covered

Jenoptik

JRT Meter Technology

Lumispot Tech

ERDI TECH

JIOPTICS

NEWTRON Technology

Xinland Group

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)

+357 96 030922
info@marketpublishers.com

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)

Chapter Outline

Chapter 1, to describe 1570nm Laser Ranging Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 1570nm Laser Ranging Module, with price, sales quantity, revenue, and global market share of 1570nm Laser Ranging Module from 2021 to 2026.

Chapter 3, the 1570nm Laser Ranging Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 1570nm Laser 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 1570nm Laser 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 1570nm Laser Ranging Module.

+357 96 030922
info@marketpublishers.com

Chapter 14 and 15, to describe 1570nm Laser Ranging Module sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global 1570nm Laser Ranging Module Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Medium-range (1–5 km)
  1.3.3 Medium-to-long Range (5–10 km)
  1.3.4 Long-range (10–20 km)
  1.3.5 Extra-long Range (20–30 km)
  1.3.6 Ultra-long Range (30–40 km and beyond)
1.4 Market Analysis by Measurement Frequency
  1.4.1 Overview: Global 1570nm Laser Ranging Module Consumption Value by Measurement Frequency: 2021 Versus 2025 Versus 2032
  1.4.2 Single-trigger
  1.4.3 Low-frequency Continuous Ranging
  1.4.4 Medium-frequency Continuous Ranging
  1.4.5 High-frequency Continuous Ranging
1.5 Market Analysis by Ranging Accuracy
  1.5.1 Overview: Global 1570nm Laser Ranging Module Consumption Value by Ranging Accuracy: 2021 Versus 2025 Versus 2032
  1.5.2 High-precision (approx. ±1–3 meters)
  1.5.3 Standard-precision (approx. ±3–5 meters)
  1.5.4 Long-range Engineering (approx. ±5–10 meters)
1.6 Market Analysis by Laser Technology Route
  1.6.1 Overview: Global 1570nm Laser Ranging Module Consumption Value by Laser Technology Route: 2021 Versus 2025 Versus 2032
  1.6.2 Optical Parametric Oscillator (OPO)
  1.6.3 Erbium-doped Solid-state Laser
  1.6.4 Fiber Laser
  1.6.5 Semiconductor Laser and Amplifier
1.7 Market Analysis by Application
  1.7.1 Overview: Global 1570nm Laser Ranging Module Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.7.2 Airborne and UAV Electro-Optical Systems
  1.7.3 Ground-based Electro-Optical Surveillance and Long-Range Observation

+357 96 030922
info@marketpublishers.com

Systems
1.7.4 Shipborne, Maritime, and Coastal Monitoring Systems
1.7.5 Others
1.8 Global 1570nm Laser Ranging Module Market Size & Forecast
1.8.1 Global 1570nm Laser Ranging Module Consumption Value (2021 & 2025 & 2032)
1.8.2 Global 1570nm Laser Ranging Module Sales Quantity (2021-2032)
1.8.3 Global 1570nm Laser Ranging Module Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Jenoptik
2.1.1 Jenoptik Details
2.1.2 Jenoptik Major Business
2.1.3 Jenoptik 1570nm Laser Ranging Module Product and Services
2.1.4 Jenoptik 1570nm Laser Ranging Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Jenoptik Recent Developments/Updates
2.2 JRT Meter Technology
2.2.1 JRT Meter Technology Details
2.2.2 JRT Meter Technology Major Business
2.2.3 JRT Meter Technology 1570nm Laser Ranging Module Product and Services
2.2.4 JRT Meter Technology 1570nm Laser Ranging Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 JRT Meter Technology Recent Developments/Updates
2.3 Lumispot Tech
2.3.1 Lumispot Tech Details
2.3.2 Lumispot Tech Major Business
2.3.3 Lumispot Tech 1570nm Laser Ranging Module Product and Services
2.3.4 Lumispot Tech 1570nm Laser Ranging Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Lumispot Tech Recent Developments/Updates
2.4 ERDI TECH
2.4.1 ERDI TECH Details
2.4.2 ERDI TECH Major Business
2.4.3 ERDI TECH 1570nm Laser Ranging Module Product and Services
2.4.4 ERDI TECH 1570nm Laser Ranging Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 ERDI TECH Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

2.5 JIOPTICS
2.5.1 JIOPTICS Details
2.5.2 JIOPTICS Major Business
2.5.3 JIOPTICS 1570nm Laser Ranging Module Product and Services
2.5.4 JIOPTICS 1570nm Laser Ranging Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 JIOPTICS Recent Developments/Updates
2.6 NEWTRON Technology
2.6.1 NEWTRON Technology Details
2.6.2 NEWTRON Technology Major Business
2.6.3 NEWTRON Technology 1570nm Laser Ranging Module Product and Services
2.6.4 NEWTRON Technology 1570nm Laser Ranging Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 NEWTRON Technology Recent Developments/Updates
2.7 Xinland Group
2.7.1 Xinland Group Details
2.7.2 Xinland Group Major Business
2.7.3 Xinland Group 1570nm Laser Ranging Module Product and Services
2.7.4 Xinland Group 1570nm Laser Ranging Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Xinland Group Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: 1570NM LASER RANGING MODULE BY MANUFACTURER

3.1 Global 1570nm Laser Ranging Module Sales Quantity by Manufacturer (2021-2026)
3.2 Global 1570nm Laser Ranging Module Revenue by Manufacturer (2021-2026)
3.3 Global 1570nm Laser Ranging Module Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of 1570nm Laser Ranging Module by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 1570nm Laser Ranging Module Manufacturer Market Share in 2025
3.4.3 Top 6 1570nm Laser Ranging Module Manufacturer Market Share in 2025
3.5 1570nm Laser Ranging Module Market: Overall Company Footprint Analysis
3.5.1 1570nm Laser Ranging Module Market: Region Footprint
3.5.2 1570nm Laser Ranging Module Market: Company Product Type Footprint
3.5.3 1570nm Laser Ranging Module Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

+357 96 030922
info@marketpublishers.com

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global 1570nm Laser Ranging Module Market Size by Region
  4.1.1 Global 1570nm Laser Ranging Module Sales Quantity by Region (2021-2032)
  4.1.2 Global 1570nm Laser Ranging Module Consumption Value by Region (2021-2032)
  4.1.3 Global 1570nm Laser Ranging Module Average Price by Region (2021-2032)
4.2 North America 1570nm Laser Ranging Module Consumption Value (2021-2032)
4.3 Europe 1570nm Laser Ranging Module Consumption Value (2021-2032)
4.4 Asia-Pacific 1570nm Laser Ranging Module Consumption Value (2021-2032)
4.5 South America 1570nm Laser Ranging Module Consumption Value (2021-2032)
4.6 Middle East & Africa 1570nm Laser Ranging Module Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global 1570nm Laser Ranging Module Sales Quantity by Type (2021-2032)
5.2 Global 1570nm Laser Ranging Module Consumption Value by Type (2021-2032)
5.3 Global 1570nm Laser Ranging Module Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global 1570nm Laser Ranging Module Sales Quantity by Application (2021-2032)
6.2 Global 1570nm Laser Ranging Module Consumption Value by Application (2021-2032)
6.3 Global 1570nm Laser Ranging Module Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America 1570nm Laser Ranging Module Sales Quantity by Type (2021-2032)
7.2 North America 1570nm Laser Ranging Module Sales Quantity by Application (2021-2032)
7.3 North America 1570nm Laser Ranging Module Market Size by Country
  7.3.1 North America 1570nm Laser Ranging Module Sales Quantity by Country (2021-2032)
  7.3.2 North America 1570nm Laser Ranging Module Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)

+357 96 030922
info@marketpublishers.com

7.3.4 Canada Market Size and Forecast (2021-2032)
7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe 1570nm Laser Ranging Module Sales Quantity by Type (2021-2032)
8.2 Europe 1570nm Laser Ranging Module Sales Quantity by Application (2021-2032)
8.3 Europe 1570nm Laser Ranging Module Market Size by Country
8.3.1 Europe 1570nm Laser Ranging Module Sales Quantity by Country (2021-2032)
8.3.2 Europe 1570nm Laser Ranging Module Consumption Value by Country (2021-2032)
8.3.3 Germany Market Size and Forecast (2021-2032)
8.3.4 France Market Size and Forecast (2021-2032)
8.3.5 United Kingdom Market Size and Forecast (2021-2032)
8.3.6 Russia Market Size and Forecast (2021-2032)
8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific 1570nm Laser Ranging Module Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific 1570nm Laser Ranging Module Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific 1570nm Laser Ranging Module Market Size by Region
9.3.1 Asia-Pacific 1570nm Laser Ranging Module Sales Quantity by Region (2021-2032)
9.3.2 Asia-Pacific 1570nm Laser Ranging Module Consumption Value by Region (2021-2032)
9.3.3 China Market Size and Forecast (2021-2032)
9.3.4 Japan Market Size and Forecast (2021-2032)
9.3.5 South Korea Market Size and Forecast (2021-2032)
9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America 1570nm Laser Ranging Module Sales Quantity by Type (2021-2032)
10.2 South America 1570nm Laser Ranging Module Sales Quantity by Application

+357 96 030922
info@marketpublishers.com

(2021-2032)
10.3 South America 1570nm Laser Ranging Module Market Size by Country
10.3.1 South America 1570nm Laser Ranging Module Sales Quantity by Country (2021-2032)
10.3.2 South America 1570nm Laser Ranging Module Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa 1570nm Laser Ranging Module Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa 1570nm Laser Ranging Module Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa 1570nm Laser Ranging Module Market Size by Country
11.3.1 Middle East & Africa 1570nm Laser Ranging Module Sales Quantity by Country (2021-2032)
11.3.2 Middle East & Africa 1570nm Laser Ranging Module Consumption Value by Country (2021-2032)
11.3.3 Turkey Market Size and Forecast (2021-2032)
11.3.4 Egypt Market Size and Forecast (2021-2032)
11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 1570nm Laser Ranging Module Market Drivers
12.2 1570nm Laser Ranging Module Market Restraints
12.3 1570nm Laser Ranging Module Trends Analysis
12.4 Porters Five Forces Analysis
12.4.1 Threat of New Entrants
12.4.2 Bargaining Power of Suppliers
12.4.3 Bargaining Power of Buyers
12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

+357 96 030922
info@marketpublishers.com

13.1 Raw Material of 1570nm Laser Ranging Module and Key Manufacturers
13.2 Manufacturing Costs Percentage of 1570nm Laser Ranging Module
13.3 1570nm Laser Ranging Module Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
  14.1.1 Direct to End-User
  14.1.2 Distributors
14.2 1570nm Laser Ranging Module Typical Distributors
14.3 1570nm Laser Ranging Module Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global 1570nm Laser Ranging Module Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global 1570nm Laser Ranging Module Consumption Value by Measurement Frequency, (USD Million), 2021 & 2025 & 2032
Table 3. Global 1570nm Laser Ranging Module Consumption Value by Ranging Accuracy, (USD Million), 2021 & 2025 & 2032
Table 4. Global 1570nm Laser Ranging Module Consumption Value by Laser Technology Route, (USD Million), 2021 & 2025 & 2032
Table 5. Global 1570nm Laser Ranging Module Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 6. Jenoptik Basic Information, Manufacturing Base and Competitors
Table 7. Jenoptik Major Business
Table 8. Jenoptik 1570nm Laser Ranging Module Product and Services
Table 9. Jenoptik 1570nm Laser Ranging Module Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 10. Jenoptik Recent Developments/Updates
Table 11. JRT Meter Technology Basic Information, Manufacturing Base and Competitors
Table 12. JRT Meter Technology Major Business
Table 13. JRT Meter Technology 1570nm Laser Ranging Module Product and Services
Table 14. JRT Meter Technology 1570nm Laser Ranging Module Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 15. JRT Meter Technology Recent Developments/Updates
Table 16. Lumispot Tech Basic Information, Manufacturing Base and Competitors
Table 17. Lumispot Tech Major Business
Table 18. Lumispot Tech 1570nm Laser Ranging Module Product and Services
Table 19. Lumispot Tech 1570nm Laser Ranging Module Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 20. Lumispot Tech Recent Developments/Updates
Table 21. ERDI TECH Basic Information, Manufacturing Base and Competitors
Table 22. ERDI TECH Major Business
Table 23. ERDI TECH 1570nm Laser Ranging Module Product and Services
Table 24. ERDI TECH 1570nm Laser Ranging Module Sales Quantity (K Units),

+357 96 030922
info@marketpublishers.com

Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 25. ERDI TECH Recent Developments/Updates
Table 26. JIOPTICS Basic Information, Manufacturing Base and Competitors
Table 27. JIOPTICS Major Business
Table 28. JIOPTICS 1570nm Laser Ranging Module Product and Services
Table 29. JIOPTICS 1570nm Laser Ranging Module Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 30. JIOPTICS Recent Developments/Updates
Table 31. NEWTRON Technology Basic Information, Manufacturing Base and Competitors
Table 32. NEWTRON Technology Major Business
Table 33. NEWTRON Technology 1570nm Laser Ranging Module Product and Services
Table 34. NEWTRON Technology 1570nm Laser Ranging Module Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 35. NEWTRON Technology Recent Developments/Updates
Table 36. Xinland Group Basic Information, Manufacturing Base and Competitors
Table 37. Xinland Group Major Business
Table 38. Xinland Group 1570nm Laser Ranging Module Product and Services
Table 39. Xinland Group 1570nm Laser Ranging Module Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 40. Xinland Group Recent Developments/Updates
Table 41. Global 1570nm Laser Ranging Module Sales Quantity by Manufacturer (2021-2026) & (K Units)
Table 42. Global 1570nm Laser Ranging Module Revenue by Manufacturer (2021-2026) & (USD Million)
Table 43. Global 1570nm Laser Ranging Module Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 44. Market Position of Manufacturers in 1570nm Laser Ranging Module, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 45. Head Office and 1570nm Laser Ranging Module Production Site of Key Manufacturer
Table 46. 1570nm Laser Ranging Module Market: Company Product Type Footprint
Table 47. 1570nm Laser Ranging Module Market: Company Product Application Footprint
Table 48. 1570nm Laser Ranging Module New Market Entrants and Barriers to Market

+357 96 030922
info@marketpublishers.com

Entry
Table 49. 1570nm Laser Ranging Module Mergers, Acquisition, Agreements, and Collaborations
Table 50. Global 1570nm Laser Ranging Module Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 51. Global 1570nm Laser Ranging Module Sales Quantity by Region (2021-2026) & (K Units)
Table 52. Global 1570nm Laser Ranging Module Sales Quantity by Region (2027-2032) & (K Units)
Table 53. Global 1570nm Laser Ranging Module Consumption Value by Region (2021-2026) & (USD Million)
Table 54. Global 1570nm Laser Ranging Module Consumption Value by Region (2027-2032) & (USD Million)
Table 55. Global 1570nm Laser Ranging Module Average Price by Region (2021-2026) & (US$/Unit)
Table 56. Global 1570nm Laser Ranging Module Average Price by Region (2027-2032) & (US$/Unit)
Table 57. Global 1570nm Laser Ranging Module Sales Quantity by Type (2021-2026) & (K Units)
Table 58. Global 1570nm Laser Ranging Module Sales Quantity by Type (2027-2032) & (K Units)
Table 59. Global 1570nm Laser Ranging Module Consumption Value by Type (2021-2026) & (USD Million)
Table 60. Global 1570nm Laser Ranging Module Consumption Value by Type (2027-2032) & (USD Million)
Table 61. Global 1570nm Laser Ranging Module Average Price by Type (2021-2026) & (US$/Unit)
Table 62. Global 1570nm Laser Ranging Module Average Price by Type (2027-2032) & (US$/Unit)
Table 63. Global 1570nm Laser Ranging Module Sales Quantity by Application (2021-2026) & (K Units)
Table 64. Global 1570nm Laser Ranging Module Sales Quantity by Application (2027-2032) & (K Units)
Table 65. Global 1570nm Laser Ranging Module Consumption Value by Application (2021-2026) & (USD Million)
Table 66. Global 1570nm Laser Ranging Module Consumption Value by Application (2027-2032) & (USD Million)
Table 67. Global 1570nm Laser Ranging Module Average Price by Application (2021-2026) & (US$/Unit)

+357 96 030922
info@marketpublishers.com

Table 68. Global 1570nm Laser Ranging Module Average Price by Application (2027-2032) & (US$/Unit)
Table 69. North America 1570nm Laser Ranging Module Sales Quantity by Type (2021-2026) & (K Units)
Table 70. North America 1570nm Laser Ranging Module Sales Quantity by Type (2027-2032) & (K Units)
Table 71. North America 1570nm Laser Ranging Module Sales Quantity by Application (2021-2026) & (K Units)
Table 72. North America 1570nm Laser Ranging Module Sales Quantity by Application (2027-2032) & (K Units)
Table 73. North America 1570nm Laser Ranging Module Sales Quantity by Country (2021-2026) & (K Units)
Table 74. North America 1570nm Laser Ranging Module Sales Quantity by Country (2027-2032) & (K Units)
Table 75. North America 1570nm Laser Ranging Module Consumption Value by Country (2021-2026) & (USD Million)
Table 76. North America 1570nm Laser Ranging Module Consumption Value by Country (2027-2032) & (USD Million)
Table 77. Europe 1570nm Laser Ranging Module Sales Quantity by Type (2021-2026) & (K Units)
Table 78. Europe 1570nm Laser Ranging Module Sales Quantity by Type (2027-2032) & (K Units)
Table 79. Europe 1570nm Laser Ranging Module Sales Quantity by Application (2021-2026) & (K Units)
Table 80. Europe 1570nm Laser Ranging Module Sales Quantity by Application (2027-2032) & (K Units)
Table 81. Europe 1570nm Laser Ranging Module Sales Quantity by Country (2021-2026) & (K Units)
Table 82. Europe 1570nm Laser Ranging Module Sales Quantity by Country (2027-2032) & (K Units)
Table 83. Europe 1570nm Laser Ranging Module Consumption Value by Country (2021-2026) & (USD Million)
Table 84. Europe 1570nm Laser Ranging Module Consumption Value by Country (2027-2032) & (USD Million)
Table 85. Asia-Pacific 1570nm Laser Ranging Module Sales Quantity by Type (2021-2026) & (K Units)
Table 86. Asia-Pacific 1570nm Laser Ranging Module Sales Quantity by Type (2027-2032) & (K Units)
Table 87. Asia-Pacific 1570nm Laser Ranging Module Sales Quantity by Application

+357 96 030922
info@marketpublishers.com

(2021-2026) & (K Units)
Table 88. Asia-Pacific 1570nm Laser Ranging Module Sales Quantity by Application (2027-2032) & (K Units)
Table 89. Asia-Pacific 1570nm Laser Ranging Module Sales Quantity by Region (2021-2026) & (K Units)
Table 90. Asia-Pacific 1570nm Laser Ranging Module Sales Quantity by Region (2027-2032) & (K Units)
Table 91. Asia-Pacific 1570nm Laser Ranging Module Consumption Value by Region (2021-2026) & (USD Million)
Table 92. Asia-Pacific 1570nm Laser Ranging Module Consumption Value by Region (2027-2032) & (USD Million)
Table 93. South America 1570nm Laser Ranging Module Sales Quantity by Type (2021-2026) & (K Units)
Table 94. South America 1570nm Laser Ranging Module Sales Quantity by Type (2027-2032) & (K Units)
Table 95. South America 1570nm Laser Ranging Module Sales Quantity by Application (2021-2026) & (K Units)
Table 96. South America 1570nm Laser Ranging Module Sales Quantity by Application (2027-2032) & (K Units)
Table 97. South America 1570nm Laser Ranging Module Sales Quantity by Country (2021-2026) & (K Units)
Table 98. South America 1570nm Laser Ranging Module Sales Quantity by Country (2027-2032) & (K Units)
Table 99. South America 1570nm Laser Ranging Module Consumption Value by Country (2021-2026) & (USD Million)
Table 100. South America 1570nm Laser Ranging Module Consumption Value by Country (2027-2032) & (USD Million)
Table 101. Middle East & Africa 1570nm Laser Ranging Module Sales Quantity by Type (2021-2026) & (K Units)
Table 102. Middle East & Africa 1570nm Laser Ranging Module Sales Quantity by Type (2027-2032) & (K Units)
Table 103. Middle East & Africa 1570nm Laser Ranging Module Sales Quantity by Application (2021-2026) & (K Units)
Table 104. Middle East & Africa 1570nm Laser Ranging Module Sales Quantity by Application (2027-2032) & (K Units)
Table 105. Middle East & Africa 1570nm Laser Ranging Module Sales Quantity by Country (2021-2026) & (K Units)
Table 106. Middle East & Africa 1570nm Laser Ranging Module Sales Quantity by Country (2027-2032) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 107. Middle East & Africa 1570nm Laser Ranging Module Consumption Value by Country (2021-2026) & (USD Million)
Table 108. Middle East & Africa 1570nm Laser Ranging Module Consumption Value by Country (2027-2032) & (USD Million)
Table 109. 1570nm Laser Ranging Module Raw Material
Table 110. Key Manufacturers of 1570nm Laser Ranging Module Raw Materials
Table 111. 1570nm Laser Ranging Module Typical Distributors
Table 112. 1570nm Laser Ranging Module Typical Customers

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. 1570nm Laser Ranging Module Picture
Figure 2. Global 1570nm Laser Ranging Module Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global 1570nm Laser Ranging Module Revenue Market Share by Type in 2025
Figure 4. Medium-range (1–5 km) Examples
Figure 5. Medium-to-long Range (5–10 km) Examples
Figure 6. Long-range (10–20 km) Examples
Figure 7. Extra-long Range (20–30 km) Examples
Figure 8. Ultra-long Range (30–40 km and beyond) Examples
Figure 9. Global 1570nm Laser Ranging Module Revenue by Measurement Frequency, (USD Million), 2021 & 2025 & 2032
Figure 10. Global 1570nm Laser Ranging Module Revenue Market Share by Measurement Frequency in 2025
Figure 11. Single-trigger Examples
Figure 12. Low-frequency Continuous Ranging Examples
Figure 13. Medium-frequency Continuous Ranging Examples
Figure 14. High-frequency Continuous Ranging Examples
Figure 15. Global 1570nm Laser Ranging Module Revenue by Ranging Accuracy, (USD Million), 2021 & 2025 & 2032
Figure 16. Global 1570nm Laser Ranging Module Revenue Market Share by Ranging Accuracy in 2025
Figure 17. High-precision (approx. ±1–3 meters) Examples
Figure 18. Standard-precision (approx. ±3–5 meters) Examples
Figure 19. Long-range Engineering (approx. ±5–10 meters) Examples
Figure 20. Global 1570nm Laser Ranging Module Revenue by Laser Technology Route, (USD Million), 2021 & 2025 & 2032
Figure 21. Global 1570nm Laser Ranging Module Revenue Market Share by Laser Technology Route in 2025
Figure 22. Optical Parametric Oscillator (OPO) Examples
Figure 23. Erbium-doped Solid-state Laser Examples
Figure 24. Fiber Laser Examples
Figure 25. Semiconductor Laser and Amplifier Examples
Figure 26. Global 1570nm Laser Ranging Module Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

+357 96 030922
info@marketpublishers.com

Figure 27. Global 1570nm Laser Ranging Module Revenue Market Share by Application in 2025
Figure 28. Airborne and UAV Electro-Optical Systems Examples
Figure 29. Ground-based Electro-Optical Surveillance and Long-Range Observation Systems Examples
Figure 30. Shipborne, Maritime, and Coastal Monitoring Systems Examples
Figure 31. Others Examples
Figure 32. Global 1570nm Laser Ranging Module Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 33. Global 1570nm Laser Ranging Module Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 34. Global 1570nm Laser Ranging Module Sales Quantity (2021-2032) & (K Units)
Figure 35. Global 1570nm Laser Ranging Module Price (2021-2032) & (US$/Unit)
Figure 36. Global 1570nm Laser Ranging Module Sales Quantity Market Share by Manufacturer in 2025
Figure 37. Global 1570nm Laser Ranging Module Revenue Market Share by Manufacturer in 2025
Figure 38. Producer Shipments of 1570nm Laser Ranging Module by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 39. Top 3 1570nm Laser Ranging Module Manufacturer (Revenue) Market Share in 2025
Figure 40. Top 6 1570nm Laser Ranging Module Manufacturer (Revenue) Market Share in 2025
Figure 41. Global 1570nm Laser Ranging Module Sales Quantity Market Share by Region (2021-2032)
Figure 42. Global 1570nm Laser Ranging Module Consumption Value Market Share by Region (2021-2032)
Figure 43. North America 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 44. Europe 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 45. Asia-Pacific 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 46. South America 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 47. Middle East & Africa 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 48. Global 1570nm Laser Ranging Module Sales Quantity Market Share by Type

+357 96 030922
info@marketpublishers.com

(2021-2032)
Figure 49. Global 1570nm Laser Ranging Module Consumption Value Market Share by Type (2021-2032)
Figure 50. Global 1570nm Laser Ranging Module Average Price by Type (2021-2032) & (US$/Unit)
Figure 51. Global 1570nm Laser Ranging Module Sales Quantity Market Share by Application (2021-2032)
Figure 52. Global 1570nm Laser Ranging Module Revenue Market Share by Application (2021-2032)
Figure 53. Global 1570nm Laser Ranging Module Average Price by Application (2021-2032) & (US$/Unit)
Figure 54. North America 1570nm Laser Ranging Module Sales Quantity Market Share by Type (2021-2032)
Figure 55. North America 1570nm Laser Ranging Module Sales Quantity Market Share by Application (2021-2032)
Figure 56. North America 1570nm Laser Ranging Module Sales Quantity Market Share by Country (2021-2032)
Figure 57. North America 1570nm Laser Ranging Module Consumption Value Market Share by Country (2021-2032)
Figure 58. United States 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 59. Canada 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 60. Mexico 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 61. Europe 1570nm Laser Ranging Module Sales Quantity Market Share by Type (2021-2032)
Figure 62. Europe 1570nm Laser Ranging Module Sales Quantity Market Share by Application (2021-2032)
Figure 63. Europe 1570nm Laser Ranging Module Sales Quantity Market Share by Country (2021-2032)
Figure 64. Europe 1570nm Laser Ranging Module Consumption Value Market Share by Country (2021-2032)
Figure 65. Germany 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 66. France 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 67. United Kingdom 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)

+357 96 030922
info@marketpublishers.com

Figure 68. Russia 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 69. Italy 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 70. Asia-Pacific 1570nm Laser Ranging Module Sales Quantity Market Share by Type (2021-2032)
Figure 71. Asia-Pacific 1570nm Laser Ranging Module Sales Quantity Market Share by Application (2021-2032)
Figure 72. Asia-Pacific 1570nm Laser Ranging Module Sales Quantity Market Share by Region (2021-2032)
Figure 73. Asia-Pacific 1570nm Laser Ranging Module Consumption Value Market Share by Region (2021-2032)
Figure 74. China 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 75. Japan 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 76. South Korea 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 77. India 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 78. Southeast Asia 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 79. Australia 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 80. South America 1570nm Laser Ranging Module Sales Quantity Market Share by Type (2021-2032)
Figure 81. South America 1570nm Laser Ranging Module Sales Quantity Market Share by Application (2021-2032)
Figure 82. South America 1570nm Laser Ranging Module Sales Quantity Market Share by Country (2021-2032)
Figure 83. South America 1570nm Laser Ranging Module Consumption Value Market Share by Country (2021-2032)
Figure 84. Brazil 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 85. Argentina 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 86. Middle East & Africa 1570nm Laser Ranging Module Sales Quantity Market Share by Type (2021-2032)
Figure 87. Middle East & Africa 1570nm Laser Ranging Module Sales Quantity Market

+357 96 030922
info@marketpublishers.com

Share by Application (2021-2032)
Figure 88. Middle East & Africa 1570nm Laser Ranging Module Sales Quantity Market Share by Country (2021-2032)
Figure 89. Middle East & Africa 1570nm Laser Ranging Module Consumption Value Market Share by Country (2021-2032)
Figure 90. Turkey 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 91. Egypt 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 92. Saudi Arabia 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 93. South Africa 1570nm Laser Ranging Module Consumption Value (2021-2032) & (USD Million)
Figure 94. 1570nm Laser Ranging Module Market Drivers
Figure 95. 1570nm Laser Ranging Module Market Restraints
Figure 96. 1570nm Laser Ranging Module Market Trends
Figure 97. Porters Five Forces Analysis
Figure 98. Manufacturing Cost Structure Analysis of 1570nm Laser Ranging Module in 2025
Figure 99. Manufacturing Process Analysis of 1570nm Laser Ranging Module
Figure 100. 1570nm Laser Ranging Module Industrial Chain
Figure 101. Sales Channel: Direct to End-User vs Distributors
Figure 102. Direct Channel Pros & Cons
Figure 103. Indirect Channel Pros & Cons
Figure 104. Methodology
Figure 105. Research Process and Data Source

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global 1570nm Laser Ranging Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/G49EEDDFA9B4EN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G49EEDDFA9B4EN.html