

Global SPAD based LiDAR Market Research Report 2026(Status and Outlook)

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Abstracts

SPAD (single photon avalanche diode)-based LiDAR (laser radar) is a laser radar system that uses SPAD as a detector. In the laser radar imaging system, the laser transmitter emits laser light, which is reflected back after hitting the target object. The SPAD detector receives the echo signal and calculates information such as distance and speed. It is an important type of laser radar technology with the characteristics of high sensitivity, high resolution and low noise, and is suitable for various scenarios that require precise measurement.

Market driversThe rapid development of ADAS and ADS: ADAS (Advanced Driver Assistance System) can collect data using sensors (including LiDAR) installed on the vehicle, and perform system calculations in combination with map data to pre-judge possible dangers for the driver and ensure driving safety. With the continuous development of ADAS technology, LiDAR, as one of the key sensors, continues to grow in market demand. ADS (Autopilot System) is a further development of ADAS, which fully realizes unmanned driving. LiDAR plays a vital role in autonomous driving, and its high-precision and high-resolution detection capabilities provide reliable safety guarantees for autonomous driving.

The promotion of autonomous driving technology: In the development of autonomous driving technology from L0 to L4, the role of LiDAR is becoming more and more important. In L2, L3 and L4 intelligent driving, the number of LiDARs is 0, 1 and 5 respectively, showing its indispensability in autonomous driving technology.

As an important breakthrough in autonomous driving, the urban NOA (Navigation on Autopilot) function has an urgent need for LiDAR. Urban working conditions are complex, and LiDAR, as a key sensing device, provides accurate environmental perception capabilities for autonomous driving.

Industry competition and technological innovation: The competition within the laser radar industry is fierce, and companies have increased their R&D investment to promote technological innovation and reduce costs and improve efficiency. As a new generation of technology products, SPAD-based laser radars have high cost

performance and long-distance detection capabilities, becoming a hot product in the industry. The cost-effective long-distance laser radar products based on the SPAD architecture released by Yijing Technology and other companies, such as ZVISION EZ6, have promoted the popularization and application of laser radar technology, reduced the cost of laser radar, and improved its market competitiveness. Policy support and market demand: Governments of various countries have continuously increased their support for intelligent driving and autonomous driving technologies, and have issued a series of relevant policies and regulations, providing a good policy environment for the development of the laser radar industry. With the continuous popularization of intelligent driving and autonomous driving technologies, consumers' demand for models equipped with laser radars has gradually increased, which has promoted the rapid development of the laser radar market.

The global SPAD based LiDAR market size was estimated at USD 371.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 48.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global SPAD based LiDAR market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global SPAD based LiDAR market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the SPAD based LiDAR market.

Global SPAD based LiDAR Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Leica
Ouster
Orbbec Inc.
Angstrong Tech
SK Telecom
innoHere
SMiTSense
Opsys
Hesai Group

Market Segmentation (by Type)

Solid State LiDAR
Mechanical LiDAR

Market Segmentation (by Application)

Consumer Products
Automobiles
Mapping
Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the SPAD based LiDAR Market

Overview of the regional outlook of the SPAD based LiDAR Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the SPAD based LiDAR Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of SPAD based LiDAR, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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