

Global Single Photon LiDAR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single Photon LiDAR market size is expected to reach \$ 2400 million by 2032, rising at a market growth of 20.5% CAGR during the forecast period (2026-2032). Single-photon LiDAR (also known as photon counting LiDAR) has a detection sensitivity of the order of single photons. Compared with traditional linear detection LiDAR, it can achieve a longer detection distance and has become the forefront and development trend of LiDAR detection technology. Single-photon LiDAR is an advanced laser detection and ranging (LiDAR) system. Its core is to use single-photon detection technology (Single-Photon Avalanche Diode, SPAD) to achieve high-sensitivity and high-precision three-dimensional imaging. This technology emits extremely weak laser pulses (usually at the single-photon level) and detects single photons reflected back by the target, combined with high-precision time-correlated single photon counting (TCSPC) technology to achieve accurate measurement of target distance, speed, shape and other information. Single-photon LiDAR has the advantages of long detection distance, high resolution and strong anti-interference ability.

The industry's gross profit margin can reach 15%-35%.Upstream: Covering core components such as lasers, detectors, FPGA chips, and optical elements, domestic substitution is accelerating, with VCSEL lasers and SPAD detectors becoming key areas for technological breakthroughs.Single-photon lidar is an emerging technology product. Currently, its price mainly depends on downstream customized needs, and a standardized product pricing model has not yet been established.Prices range from several thousand to tens of thousands of US dollars.

Analysis of market drivers of single-photon LiDAR

1. Technological progress and innovation

Breakthrough in single-photon detection technology: With the maturity of SPAD array technology, the detection sensitivity and resolution of single-photon LiDAR have been significantly improved, and high-precision imaging can be achieved at longer distances

and in more complex environments.

Integration and miniaturization: Advances in semiconductor processes have greatly reduced the size and weight of single-photon LiDAR, making it easier to integrate into various mobile platforms (such as drones and self-driving cars).

Cost reduction: Large-scale production and process optimization have reduced the manufacturing cost of single-photon LiDAR, promoting its popularization from high-end military applications to the civilian market.

2. Growing demand for autonomous driving and intelligent transportation

Advanced driver assistance systems (ADAS): Autonomous vehicles require high-precision environmental perception capabilities, and single-photon LiDAR can provide centimeter-level three-dimensional maps to support vehicles to achieve autonomous navigation and obstacle avoidance.

Vehicle-to-road collaboration (V2X): In intelligent transportation systems, single-photon LiDAR can be deployed in road infrastructure (such as traffic lights and roadside units) to achieve efficient collaboration between vehicles and roads.

Policy promotion: Many governments have introduced policies for autonomous driving testing and commercialization to accelerate the application of single-photon lidar in the field of intelligent transportation.

3. Demand for topographic mapping and urban modeling

High-precision map production: Single-photon lidar can quickly obtain large-area terrain data, generate high-precision digital elevation models (DEMs) and three-dimensional urban models, and support smart city planning and management.

Disaster monitoring and emergency response: After disasters such as earthquakes and floods, single-photon lidar can quickly assess terrain changes and provide data support for rescue decisions.

Infrastructure construction: In bridges, tunnels, highways and other projects, single-photon lidar is used for deformation monitoring and quality inspection to improve construction safety.

4. Environmental monitoring and resource management

Forest cover monitoring: Through lidar point cloud data, forest canopy density, tree height and biomass can be accurately calculated to support carbon neutrality goals and ecological protection.

Water resource management: Single-photon lidar can measure changes in river terrain and water depth, providing a basis for flood control and drought relief and water resource scheduling.

Precision agricultural management: Deploy single-photon LiDAR in farmland to monitor crop growth and soil moisture, and achieve variable fertilization and irrigation.

5. Security monitoring and military applications

Border and key point protection: Single-photon LiDAR can achieve all-weather, long-

distance target detection and tracking, and improve the response speed of the security system.

Military reconnaissance and target strike: In the military field, single-photon LiDAR is used in scenarios such as drone reconnaissance and missile guidance to improve combat effectiveness.

Anti-UAV system: Combined with AI algorithms, single-photon LiDAR can quickly identify and track low-altitude, slow-moving small targets (such as drones) and support countermeasures.

6. Policy support and capital investment

Government R&D funding: Many countries have listed LiDAR technology as a strategic emerging industry, and support the development of enterprises through scientific research project funding and tax incentives.

Venture capital and IPO: Single-photon LiDAR start-ups have received a lot of venture capital, and some companies have been listed through IPOs to promote the commercialization of technology.

Industry standard formulation: The International Organization for Standardization (ISO) and national institutions are formulating LiDAR performance and testing standards to regulate market development.

The growth of the single-photon LiDAR market is driven by multiple factors, including technological progress, demand for autonomous driving, demand for terrain mapping, demand for environmental monitoring, demand for security monitoring, and policy support. As technology matures and costs fall, single-photon LiDAR will be popularized from high-end military applications to the civilian market, and will play a key role in autonomous driving, smart cities, ecological protection and other fields.

This report studies the global Single Photon LiDAR demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Photon LiDAR, 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 Single Photon LiDAR that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single Photon LiDAR total market, 2021-2032, (USD Million)

Global Single Photon LiDAR total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Single Photon LiDAR total market, key domestic companies, and share, (USD Million)

Global Single Photon LiDAR revenue by player, revenue and market share 2021-2026, (USD Million)

Global Single Photon LiDAR total market by Type, CAGR, 2021-2032, (USD Million)
Global Single Photon LiDAR total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Single Photon LiDAR market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Leica, Ouster, Orbbec Inc., Angstrong Tech, SK Telecom, innoHere, SMiTSense, Opsys, Hesai 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 Single Photon LiDAR market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Single Photon LiDAR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Photon LiDAR Market, Segmentation by Type:

Solid State LiDAR

Mechanical LiDAR

Global Single Photon LiDAR Market, Segmentation by Technology:

ToF

FMCW

Global Single Photon LiDAR Market, Segmentation by Functional Category:

Surveying Grade

Navigation Grade

Automotive Grade

Industrial Grade

Global Single Photon LiDAR Market, Segmentation by Application:

Consumer Products

Automobiles

Mapping

Other

Companies Profiled:

Leica

Ouster

Orbbec Inc.

Angstrong Tech

SK Telecom

innoHere

SMiTSense

Opsys

Hesai Group

Key Questions Answered

1. How big is the global Single Photon LiDAR market?
2. What is the demand of the global Single Photon LiDAR market?
3. What is the year over year growth of the global Single Photon LiDAR market?
4. What is the total value of the global Single Photon LiDAR market?
5. Who are the Major Players in the global Single Photon LiDAR market?
6. What are the growth factors driving the market demand?

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