

Global Single-Photon Imaging LiDAR Market Growth 2026-2032

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Abstracts

The global Single-Photon Imaging LiDAR market size is predicted to grow from US\$ 331 million in 2025 to US\$ 1595 million in 2032; it is expected to grow at a CAGR of 21.6% from 2026 to 2032.

Single-Photon Imaging LiDAR refers to active optical ranging and three-dimensional imaging systems that illuminate a scene with laser pulses and detect returned photons using single-photon-sensitive detectors such as SPAD arrays, silicon photomultipliers, or Geiger-mode avalanche photodiode arrays. A typical system integrates a pulsed laser source, scanning or flash illumination optics, photon-counting detectors, time-to-digital conversion or time-correlated single-photon counting electronics, synchronization control, and point-cloud reconstruction algorithms. By measuring the arrival time of individual or very low numbers of returned photons, these systems can generate depth maps, 3D point clouds, or range-intensity images under photon-starved, long-range, low-power, or high-speed acquisition conditions. Commercial forms include single-photon airborne mapping LiDAR, Geiger-mode LiDAR cameras for defense and geospatial intelligence, SPAD-SoC digital LiDAR for automotive and robotics, and specialized SPAD cameras and photon-counting detector modules used in industrial and research platforms.

Based on our research, Single-Photon Imaging LiDAR should be viewed as a photon-efficient evolution of LiDAR rather than a variant of radio-frequency radar. Its core value lies in the receiver chain: SPAD arrays, silicon photomultipliers, or Geiger-mode APD arrays convert extremely weak optical returns into timestamped photon events, enabling range reconstruction under photon-starved, long-range, high-background, or low-power conditions. The market definition needs to remain disciplined. Airborne single-photon LiDAR and defense-oriented Geiger-mode systems are high-value, low-volume, project-

based markets; SPAD-SoC digital LiDAR for automotive, robotics, and smart infrastructure represents the scalable growth path; SPAD sensors, SiPMs, and photon-counting cameras are critical enabling components but should not be fully counted as system-level LiDAR revenue.

From the demand side, the 2025 market remains supported by digital SPAD LiDAR shipments, high-end airborne mapping systems, and defense/geospatial projects. The stronger inflection is expected from 2026 onward as SPAD-SoC platforms begin to move from demonstrations and limited production into broader automotive and robotics deployment. The Chinese supply chain is increasingly positioning ?single-photon detection + on-chip processing + high channel count? as the next-generation architecture for automotive perception. If these platforms reach stable SOP and customer adoption, revenue growth will increasingly be driven by volume platforms rather than by project-based airborne and defense systems.

From a technology perspective, SPAD-SoC digital LiDAR, VCSEL/SPAD architectures, Geiger-mode APD cameras, and TCSPC SPAD cameras will coexist rather than converge immediately into one dominant design. Airborne mapping prioritizes area productivity, point density, and cost per point; defense and ISR prioritize long-range detection, foliage or obscurant performance, and photon-starved operation; automotive and robotics prioritize cost, power, channel count, sunlight robustness, and manufacturability. The main substitution risks come from FMCW LiDAR, mature APD/SiPM receiver designs, and camera-only AI stacks, but single-photon detection retains strong strategic relevance where low-light, long-range, small-object, and safety-redundant perception are required.

LP Information, Inc. (LPI) ' newest research report, the ?Single-Photon Imaging LiDAR Industry Forecast? looks at past sales and reviews total world Single-Photon Imaging LiDAR sales in 2025, providing a comprehensive analysis by region and market sector of projected Single-Photon Imaging LiDAR sales for 2026 through 2032. With Single-Photon Imaging LiDAR sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Single-Photon Imaging LiDAR industry.

This Insight Report provides a comprehensive analysis of the global Single-Photon Imaging LiDAR 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 Single-Photon Imaging LiDAR portfolios and capabilities, market entry strategies,

market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Single-Photon Imaging LiDAR market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-Photon Imaging LiDAR 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 view of the current state and future trajectory in the global Single-Photon Imaging LiDAR.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-Photon Imaging LiDAR market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Complete LiDAR System

LiDAR Camera / Imaging Module

Detector Module

Other

Segmentation by Imaging Architecture:

Scanning LiDAR

Flash LiDAR

Solid-state Digital LiDAR

Other

Segmentation by Wavelength:

850?940 nm

1064 nm

1550 nm

Other Wavelengths

Segmentation by End-use Platform:

Vehicle-mounted

Robot-mounted

Spaceborne Platform

Fixed / Ground-based Platform

Other

Segmentation by Application:

Automotive ADAS / Autonomous Driving

Robotics / Embodied AI

Airborne Mapping

Defense / ISR

Space / Navigation

Scientific Imaging

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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.

Hexagon AB

BAE Systems plc

L3Harris Technologies, Inc.

Ouster, Inc.

Hesai Group

RoboSense Technology Co., Ltd.

Seyond Holdings Ltd.

OPSYS Technologies Ltd.

3DEO Inc.

SRI International

Advanced Scientific Concepts, LLC

Key Questions Addressed in this Report

What is the 10-year outlook for the global Single-Photon Imaging LiDAR market?

What factors are driving Single-Photon Imaging LiDAR market growth, globally and by region?

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

How do Single-Photon Imaging LiDAR market opportunities vary by end market size?

How does Single-Photon Imaging LiDAR break out by Type, by Application?

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