

Global Automotive Pure Solid-State LiDAR Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Pure Solid-State LiDAR market size was valued at US\$ 1297 million in 2025 and is forecast to a readjusted size of US\$ 4399 million by 2032 with a CAGR of 19.0% during review period.

In 2025, global Automotive Pure Solid-State LiDAR production reached approximately 2.8 million units, with an average global market price of around US\$450 per unit.

Automotive pure solid-state LiDAR is a vehicle-mounted 3D sensing technology that eliminates mechanical scanning components and relies on semiconductor-based optoelectronic integration to emit and receive laser signals. Typically based on Flash, optical phased array (OPA), or FMCW architectures, it generates high-resolution point clouds for real-time environmental perception and object detection. Compared with mechanical or hybrid LiDAR, pure solid-state LiDAR offers higher reliability, stronger vibration resistance, compact size, and better scalability for mass production, while meeting automotive-grade standards. It is a key sensing component for ADAS and autonomous driving systems.

The upstream of automotive pure solid-state LiDAR includes key components such as laser emitters (VCSEL, EEL), detectors (SPAD, APD), optical elements (lenses, filters), semiconductor materials (GaAs, InP), and ASIC chips. The midstream consists of LiDAR manufacturers responsible for system design, optoelectronic integration, algorithms, and production. Downstream applications include automotive OEMs and autonomous driving solution providers, covering passenger vehicles, commercial vehicles, and self-driving systems. Representative upstream companies include ams

OSRAM, Lumentum, Hamamatsu, Sony, and Coherent, while LiDAR manufacturers include Hesai, RoboSense, Luminar, Innoviz, and Ouster. Downstream users include OEMs such as Mercedes-Benz, BMW, Tesla, Volvo, and BYD. The industry chain is highly integrated across semiconductor components, sensing systems, and vehicle platforms, with laser transceiver modules representing a major cost and innovation focus.

Automotive pure solid-state LiDAR is transitioning from early-stage validation to large-scale commercialization, driven by the increasing adoption of ADAS and higher levels of autonomous driving across vehicle segments. Compared with mechanical LiDAR, pure solid-state solutions offer clear advantages in reliability, cost control, and integration, making them a mainstream technological direction. Market growth is supported by vehicle intelligence upgrades, regulatory support, and strong demand for enhanced safety features, while advances in semiconductor processes and chip integration are enabling miniaturization and cost reduction. However, the industry still faces challenges such as uneven technology maturity, trade-offs between performance and cost, and the lack of unified standards. In addition, reliance on high-end upstream components limits supply chain independence. Overall, automotive pure solid-state LiDAR is expected to play a central role in future intelligent vehicle perception systems as autonomous driving adoption continues to rise.

This report is a detailed and comprehensive analysis for global Automotive Pure Solid-State LiDAR 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 Automotive Pure Solid-State LiDAR market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Pure Solid-State LiDAR 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 Automotive Pure Solid-State LiDAR market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Pure Solid-State LiDAR 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 Automotive Pure Solid-State LiDAR
- 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 Automotive Pure Solid-State LiDAR 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 Opsys-Tech, XenomatiX, Continental, Quanergy, LeddarTech, Sense Photonics, PreAct Technologies, Advanced Scientific Concepts LLC, Neuvition, Ouster, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive Pure Solid-State LiDAR 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 segment by Type

Flash LiDAR

Optical Phased Array LiDAR

Others

Market segment by Detection Range

100-200 m

200-300 m

Others

Market segment by Laser Wavelength

905 nm

1550 nm

Others

Market segment by Application

Passenger Vehicle

Commercial Vehicle

Major players covered

Opsys-Tech

XenomatiX

Continental

Quanergy

LeddarTech

Sense Photonics

PreAct Technologies

Advanced Scientific Concepts LLC

Neuvition

Ouster

Innoviz

Valeo

Luminar

Zvision

RoboSense

Hesai Technology

LIVOX

LiangDao Automotive

LuminWave

Neuvition

Leishen Intelligence

ToFFuture

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)

Global Automotive Pure Solid-State LiDAR Market 2026 by Manufacturers, Regions, Type and Application, Forecast...

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Pure Solid-State LiDAR product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Pure Solid-State LiDAR, with price, sales quantity, revenue, and global market share of Automotive Pure Solid-State LiDAR from 2021 to 2026.

Chapter 3, the Automotive Pure Solid-State LiDAR competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Pure Solid-State LiDAR 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 Automotive Pure Solid-State LiDAR 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 Automotive Pure Solid-State LiDAR.

Chapter 14 and 15, to describe Automotive Pure Solid-State LiDAR sales channel, distributors, customers, research findings and conclusion.

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