

Global Solid-State Automotive Lidar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solid-State Automotive Lidar market size is expected to reach \$ 4399 million by 2032, rising at a market growth of 19.0% CAGR during the forecast period (2026-2032).

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

Solid-state automotive LiDAR is a semiconductor-based 3D sensing technology that eliminates mechanical moving parts and uses laser emission and signal reflection (via time-of-flight or FMCW methods) to measure distances and generate high-resolution 3D maps of the surroundings. Instead of rotating components, it relies on electronic beam steering technologies such as MEMS mirrors, optical phased arrays (OPA), or flash arrays. Compared with mechanical LiDAR, it offers smaller size, higher reliability, better manufacturability, and strong cost-reduction potential, making it a key sensing technology for autonomous driving and ADAS systems.

The upstream of the solid-state automotive LiDAR industry includes laser sources (VCSEL/EEL), photodetectors (SPAD/APD), optical components, and semiconductor suppliers such as Hamamatsu Photonics, Lumentum, and Sony. The midstream consists of LiDAR manufacturers such as Hesai Technology, RoboSense, Innoviz Technologies, and Luminar Technologies. Downstream applications include automotive OEMs such as BYD, Li Auto, and Mercedes-Benz, forming a complete ecosystem from photonics components to vehicle integration.

The solid-state automotive LiDAR market is experiencing rapid growth driven by the expansion of autonomous driving and ADAS technologies. With its high reliability and

scalability, solid-state LiDAR is becoming the mainstream direction in automotive sensing. Key trends include declining costs, movement toward fully solid-state and chip-based solutions, and deeper integration with cameras and radar in sensor fusion systems. However, challenges remain in technology maturity, standardization, and differing strategies among automakers. Overall, the market is a highly competitive, technology-driven, high-growth segment.

This report studies the global Solid-State Automotive Lidar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid-State Automotive 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 Solid-State Automotive Lidar that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solid-State Automotive Lidar total production and demand, 2021-2032, (K Units)

Global Solid-State Automotive Lidar total production value, 2021-2032, (USD Million)

Global Solid-State Automotive Lidar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Solid-State Automotive Lidar consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Solid-State Automotive Lidar domestic production, consumption, key domestic manufacturers and share

Global Solid-State Automotive Lidar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Solid-State Automotive Lidar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Solid-State Automotive Lidar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solid-State Automotive Lidar market based on the following parameters - company overview, production, value, 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, Luminar, Ouster, 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 Solid-State Automotive Lidar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, 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 Solid-State Automotive Lidar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid-State Automotive Lidar Market, Segmentation by Type:

Flash LiDAR

Optical Phased Array LiDAR

Others

Global Solid-State Automotive Lidar Market, Segmentation by Detection Range:

100-200 m

200-300 m

Others

Global Solid-State Automotive Lidar Market, Segmentation by Laser Wavelength:

905 nm

1550 nm

Others

Global Solid-State Automotive Lidar Market, Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

Companies Profiled:

Opsys-Tech

XenomatiX

Continental

Quanergy

LeddarTech

Sense Photonics

PreAct Technologies

Advanced Scientific Concepts LLC

Luminar

Ouster

Innoviz

Valeo

ToFFuture

Zvision

RoboSense

Hesai Technology

LIVOX

LiangDao Automotive

LuminWave

Neuvition

Leishen Intelligence

Key Questions Answered:

1. How big is the global Solid-State Automotive Lidar market?
2. What is the demand of the global Solid-State Automotive Lidar market?
3. What is the year over year growth of the global Solid-State Automotive Lidar market?
4. What is the production and production value of the global Solid-State Automotive

Lidar market?

5. Who are the key producers in the global Solid-State Automotive Lidar market?

6. What are the growth factors driving the market demand?

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