

Global 3D Solid-state LiDAR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 3D Solid-state LiDAR market size is expected to reach \$ 7471 million by 2032, rising at a market growth of 27.1% CAGR during the forecast period (2026-2032).

In 2025, global 3D Solid-state LiDAR production reached approximately 2.2 million units , with an average global market price of around US\$750 per unit.

3D solid-state LiDAR is a semiconductor-based laser sensing technology that captures three-dimensional spatial information through electronic beam steering. By emitting laser pulses and measuring reflected signals using time-of-flight (ToF) or frequency-modulated continuous wave (FMCW) methods, it generates high-resolution 3D point cloud data in real time. Unlike traditional mechanical LiDAR, it uses solid-state or quasi-solid-state architectures such as MEMS mirrors, flash arrays, or optical phased arrays (OPA), offering compact size, high reliability, scalability, and strong cost-reduction potential. It is widely used in autonomous driving, robotics, smart transportation, and industrial sensing.

The upstream of the 3D solid-state LiDAR industry includes laser sources (VCSEL/EEL), photodetectors (SPAD/APD), optical components, and semiconductor suppliers such as Lumentum, Hamamatsu Photonics, 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 and Mercedes-Benz, as well as robotics and autonomous driving platforms, forming a complete ecosystem.

The 3D solid-state LiDAR market is experiencing rapid growth driven by demand from autonomous driving, robotics, and intelligent sensing applications. Key trends include

the transition toward fully solid-state and chip-based solutions, declining costs, and deeper integration with camera and radar systems in sensor fusion architectures. However, the industry remains highly competitive, with evolving technology paths and cost pressures posing challenges. Overall, it is a technology-driven, high-growth segment with strong long-term potential.

This report studies the global 3D Solid-state LiDAR production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Solid-state 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 3D Solid-state LiDAR that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Solid-state LiDAR total production and demand, 2021-2032, (K Units)

Global 3D Solid-state LiDAR total production value, 2021-2032, (USD Million)

Global 3D Solid-state LiDAR production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 3D Solid-state LiDAR consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 3D Solid-state LiDAR domestic production, consumption, key domestic manufacturers and share

Global 3D Solid-state LiDAR production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 3D Solid-state LiDAR production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 3D Solid-state LiDAR production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 3D Solid-state 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 3D Solid-state LiDAR market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 3D Solid-state LiDAR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D Solid-state LiDAR Market, Segmentation by Type:

MEMS Based Scanning

Phase Array

Non-Scanning Flash

Global 3D Solid-state LiDAR Market, Segmentation by Detection Range:

50-200 m

200-300 m

Others

Global 3D Solid-state LiDAR Market, Segmentation by Laser Wavelength:

905 nm

1550 nm

Others

Global 3D Solid-state LiDAR Market, Segmentation by Application:

Automotive

Robots

Industrial Automation

Others

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 3D Solid-state LiDAR market?

Global 3D Solid-state LiDAR Supply, Demand and Key Producers, 2026-2032

2. What is the demand of the global 3D Solid-state LiDAR market?
3. What is the year over year growth of the global 3D Solid-state LiDAR market?
4. What is the production and production value of the global 3D Solid-state LiDAR market?
5. Who are the key producers in the global 3D Solid-state LiDAR market?
6. What are the growth factors driving the market demand?

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