

Global True Solid State LiDAR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global True Solid State LiDAR market size is expected to reach \$ 10868 million by 2032, rising at a market growth of 21.2% CAGR during the forecast period (2026-2032).

In 2025, global True Solid State LiDAR production reached approximately 5.78 million units, with an average global market price of around US\$500 per unit.

A True Solid State LiDAR is a lidar sensor that uses integrated optical chips, optical phased arrays (OPA), flash array illumination, or similar electronic beam steering techniques to capture 3D point clouds without any rotating or moving mechanical scanning parts. Compared to traditional mechanical LiDAR, it offers higher reliability, smaller form factor, stronger resistance to vibration, and lower mass production cost, making it a key sensing technology for autonomous driving, unmanned systems, and intelligent perception devices.

The True Solid State LiDAR supply chain consists of three tiers: upstream suppliers of core components such as laser sources, detectors, optical elements, integrated photonic chips, ASIC/driver chips, and packaging materials—for example, II?VI Incorporated for 905?nm and 1550?nm laser diodes, Hamamatsu and Broadcom for high?sensitivity SPAD/SiPM detectors, and Rockley Photonics and Ayar Labs for photonic integrated circuits; the midstream involves companies that design, integrate, and manufacture complete LiDAR modules and systems, such as Ouster, Innoviz, Luminar, and RoboSense; and downstream end users include automotive OEMs and Tier?1 suppliers deploying LiDAR in autonomous and advanced driver assistance systems, robotics and navigation platforms (e.g., Fetch Robotics, GreyOrange), UAV surveying/mapping equipment suppliers (DJI, Trimble, Leica Geosystems), and intelligent traffic infrastructure or security monitoring applications.

The True Solid State LiDAR market is currently at a critical stage of industrial transition, moving from early technology validation and prototype stages toward large-scale production readiness. In terms of technology trends, optical phased array and flash array approaches are gaining prominence because they eliminate mechanical parts, enable chip-level integration, and offer higher reliability. Major drivers fueling market growth include the increasing demand for high-precision, real-time 3D perception in autonomous driving and advanced driver assistance systems; strong demand for compact, low-power, reliable sensors in robotics, UAVs, and logistics automation; and the expansion of 3D perception into intelligent transportation and security monitoring applications. Additionally, maturing photonic integration, ASIC design, manufacturing processes, and packaging technologies provide a solid technical foundation for scaling production. Key challenges remain, such as the complexity of core photonic component manufacturing, the need for improved robustness and anti-interference performance in complex environments, the lack of fully unified standards across different technology pathways, and competitive and complementary dynamics with other sensing modalities such as millimeter-wave radar and cameras in sensor fusion systems. The overall market trajectory is toward higher resolution, longer range, lower cost, and greater robustness, with solid-state LiDAR expected to gradually replace mechanical LiDAR in many applications or become a central element in multi-sensor perception stacks.

This report studies the global True Solid State LiDAR production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global True Solid State LiDAR total production and demand, 2021-2032, (K Units)

Global True Solid State LiDAR total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: True Solid State LiDAR domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global True 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, Neuvision, 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 True 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 (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 True Solid State LiDAR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global True Solid State LiDAR Market, Segmentation by Type:

Flash LiDAR

Optical Phased Array LiDAR

Global True Solid State LiDAR Market, Segmentation by:

32?32

64?64

128?128

160?160

256?256

512?512

Others

Global True Solid State LiDAR Market, Segmentation by Field of View:

30°- 60°

60°- 120°

120°- 180°

180°- 360°

Global True Solid State LiDAR Market, Segmentation by Application:

Automobile

Industrial Automation

Smart Security

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global True Solid State LiDAR market?
2. What is the demand of the global True Solid State LiDAR market?
3. What is the year over year growth of the global True Solid State LiDAR market?
4. What is the production and production value of the global True Solid State LiDAR market?
5. Who are the key producers in the global True Solid State LiDAR market?
6. What are the growth factors driving the market demand?

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