

Global 4D LiDAR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 4D LiDAR market size is expected to reach \$ 1597 million by 2032, rising at a market growth of 62.0% CAGR during the forecast period (2026-2032).

4D LiDAR commonly refers to LiDAR that outputs a 3D point cloud (x, y, z) plus a fourth dimension?typically per-point radial velocity (v) measured instantly. In technical practice, this is most strongly associated with coherent/FMCW LiDAR, where the returned signal?s phase/frequency enables using the Doppler principle to measure both distance and velocity in the same sensing process.

Upstream for 4D LiDAR spans: laser sources (often 905 nm or 1550 nm), optical front-end (lenses, filters, beam splitters), beam steering/scanning (mechanical rotation, MEMS mirrors, flash, or optical phased arrays), and the receiver chain (detectors and analog front-end).

Downstream adoption is led by automotive ADAS/automated driving (especially long-range, high-speed perception where native velocity helps tracking and decision-making), and industrial automation/robotics (AMR/AGV navigation, safety, and high-confidence motion perception).

In 2025, global sales of 4D LiDAR reached approximately 129 K units, with an average global market price of around US\$ 362/unit.

The automotive perception market remains dominated by time-of-flight, three-dimensional LiDAR because its supply chain is mature and its cost curve is already being optimized through scale. OEMs can often achieve acceptable performance using sensor fusion and software improvements while benefiting from faster industrialization and procurement competition. In contrast, coherent ?true four-dimensional? LiDAR differentiates itself by measuring range and velocity as a native observable, which can be valuable for challenging targets and interference-heavy environments. However, converting that technical advantage into repeatable, automotive-grade value requires longer validation cycles, tighter hardware?software co-design, and system-level safety

evidence?so adoption is still largely at pilot and early deployment stages. Demand drivers come from both automotive and industrial sides. Automotive programs increasingly want robust perception under edge cases and higher automation reliability, while industrial users value precision, all-weather operation, and interference resilience in automation, robotics, and smart infrastructure. The main constraints are engineering and economics: packaging and component costs, automotive/industrial qualification, calibration and perception stack maturity, and integration into existing platforms. As mainstream three-dimensional LiDAR continues to commoditize, true four-dimensional LiDAR is pushed toward segments where its unique capabilities are clearly monetizable?first proving value where performance matters most, then expanding as integration and cost improve.

Looking ahead, adoption is likely to follow a ?industrial-first, premium-first? pattern: industrial and infrastructure deployments can adopt new sensors through project-based ROI, while automotive scale typically demands platformization and supply-chain maturity. Partnerships with large optoelectronics manufacturers and progress toward deeper integration (including chip-level roadmaps) can gradually improve cost and manufacturability, enabling four-dimensional LiDAR to become a complementary layer rather than a direct replacement of today?s dominant three-dimensional solutions. This report studies the global 4D LiDAR production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 4D 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 4D LiDAR that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 4D LiDAR total production and demand, 2021-2032, (Units)

Global 4D LiDAR total production value, 2021-2032, (USD Million)

Global 4D LiDAR production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global 4D LiDAR consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: 4D LiDAR domestic production, consumption, key domestic manufacturers and share

Global 4D LiDAR production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global 4D LiDAR production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global 4D LiDAR production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global 4D 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 Aeva, SiLC Technologies, MicroVision, Aurora, Unitree, LuminWave, 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 4D LiDAR market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 4D LiDAR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 4D LiDAR Market, Segmentation by Type:

905 nm Band

1550 nm Band

Global 4D LiDAR Market, Segmentation by Velocity Acquisition:

Native Doppler Velocity

Non-Native Velocity

Global 4D LiDAR Market, Segmentation by Output Data Form:

4D Point Cloud

4D Imaging Point Cloud

Global 4D LiDAR Market, Segmentation by Application:

Automotive

Industrial

Other

Companies Profiled:

Aeva

SiLC Technologies

MicroVision

Aurora

Unitree

LuminWave

Key Questions Answered:

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

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