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Global LiDAR Sensors for Self-Driving Market Growth 2026-2032

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Abstracts

The global LiDAR Sensors for Self-Driving market size is predicted to grow from US$ 3202 million in 2025 to US$ 12866 million in 2032; it is expected to grow at a CAGR of 22.1% from 2026 to 2032.

In 2025, the global LiDAR sensors for self-driving market records an annual production volume of approximately 4.25 million units against a global installed production capacity of about 5.70 million units per year, with average unit price USD 770, while leading manufacturers maintain an average gross margin of roughly 48%. LiDAR sensors for self-driving are active optical sensing systems that emit laser pulses and measure their return time to generate high-resolution 3D point-cloud maps of a vehicle's surroundings, enabling precise object detection, distance measurement, and scene understanding under a wide range of lighting conditions. The supply chain begins with core components such as laser sources (905 nm or 1550 nm semiconductor lasers/fiber lasers), photodetectors (APDs or SPADs), optical elements (lenses, prisms, MEMS mirrors or optical phased arrays), and timing/processing ICs (ToF ASICs, SoCs), which are supplied by semiconductor, photonics, and optics manufacturers. These parts are integrated by LiDAR OEMs into mechanical, MEMS-based, or solid-state LiDAR modules, followed by calibration, firmware loading, and environmental testing. Tier-1 automotive suppliers then package LiDAR units into vehicle-grade systems, handling functional safety (ISO 26262), automotive qualification, and system integration with perception software. Finally, automakers and autonomous-driving platform providers deploy LiDAR sensors into ADAS and self-driving stacks, where the data is fused with cameras, radar, and AI processors to support perception, localization, and planning functions.

United States market for LiDAR Sensors for Self-Driving is estimated to increase from

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US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for LiDAR Sensors for Self-Driving is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for LiDAR Sensors for Self-Driving is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key LiDAR Sensors for Self-Driving players cover Hesai Technology, RoboSense, Ouster, Velodyne Lidar, Innoviz Technologies, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “LiDAR Sensors for Self-Driving Industry Forecast” looks at past sales and reviews total world LiDAR Sensors for Self-Driving sales in 2025, providing a comprehensive analysis by region and market sector of projected LiDAR Sensors for Self-Driving sales for 2026 through 2032. With LiDAR Sensors for Self-Driving sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world LiDAR Sensors for Self-Driving industry.

This Insight Report provides a comprehensive analysis of the global LiDAR Sensors for Self-Driving landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on LiDAR Sensors for Self-Driving portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global LiDAR Sensors for Self-Driving market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LiDAR Sensors for Self-Driving and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global LiDAR Sensors for Self-Driving.

This report presents a comprehensive overview, market shares, and growth opportunities of LiDAR Sensors for Self-Driving market by product type, application, key

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manufacturers and key regions and countries.

Segmentation by Type:

ToF LiDAR

FMCW LiDAR

Segmentation by Laser Wavelength:

905 nm LiDAR

1550 nm LiDAR

Segmentation by Application:

Passenger Cars

Commercial Vehicles

Robotaxis

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

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China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its

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market penetration.

Hesai Technology

RoboSense

Ouster

Velodyne Lidar

Innoviz Technologies

Cepton Technologies

Luminar Technologies

LeddarTech

Aeva Technologies

Quanergy Systems

Ibeo Automotive Systems

Livox

Blickfeld

Benewake

XenomatiX

MicroVision

Key Questions Addressed in this Report

What is the 10-year outlook for the global LiDAR Sensors for Self-Driving market?

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What factors are driving LiDAR Sensors for Self-Driving market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do LiDAR Sensors for Self-Driving market opportunities vary by end market size?

How does LiDAR Sensors for Self-Driving break out by Type, by Application?

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