

Global LIDAR for Autonomous System Market Growth 2026-2032

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Abstracts

The global LIDAR for Autonomous System market size is predicted to grow from US\$ 1157 million in 2025 to US\$ 3005 million in 2032; it is expected to grow at a CAGR of 15.5% from 2026 to 2032.

A LIDAR for autonomous systems is a sensor based on laser ranging principles, used to perceive the surrounding environment of a vehicle in real time, including obstacles, road boundaries, and pedestrians. It emits laser pulses and receives reflected signals to generate high-precision 3D point clouds, providing environmental modeling and decision support for autonomous driving systems.

In 2025, the global production of LiDAR for autonomous systems was 3.18 million units, with an average price of \$372 per unit.

United States market for LIDAR for Autonomous System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for LIDAR for Autonomous System 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 for Autonomous System 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 for Autonomous System players cover Velodyne Lidar, Ouster, Hesai Technology, RoboSense, Valeo, 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 for Autonomous System Industry Forecast" looks at past sales and reviews total world LIDAR for Autonomous System sales in 2025, providing a comprehensive analysis by region and market sector of projected LIDAR for Autonomous System sales for 2026 through 2032. With LIDAR for Autonomous System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world LIDAR for Autonomous System industry.

This Insight Report provides a comprehensive analysis of the global LIDAR for Autonomous System 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 for Autonomous System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global LIDAR for Autonomous System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LIDAR for Autonomous System 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 for Autonomous System.

This report presents a comprehensive overview, market shares, and growth opportunities of LIDAR for Autonomous System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mechanical Rotating LIDAR

Hybrid Solid-State LIDAR

All-Solid-State LIDAR

Segmentation by Principle:

Time-of-Flight (ToF)

Frequency Modulated Continuous Wave (FMCW)

Phase-based

Laser Triangulation

Segmentation by Detection Distance:

Less than 50m

50?200m

200?500m

Segmentation by Application:

Advanced Driver Assistance Systems (ADAS)

Autonomous Passenger Vehicles

Unmanned Delivery Vehicles

Intelligent Traffic Management

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

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 market penetration.

Velodyne Lidar

Ouster

Hesai Technology

RoboSense

Valeo

Luminar Technologies

Innoviz Technologies

Aeva Technologies

Cepton

Continental

Bosch

Seyond

AEye

Zvision

SureStar

Key Questions Addressed in this Report

What is the 10-year outlook for the global LIDAR for Autonomous System market?

What factors are driving LIDAR for Autonomous System market growth, globally and by region?

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

How do LIDAR for Autonomous System market opportunities vary by end market size?

How does LIDAR for Autonomous System break out by Type, by Application?

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