

Global High-thread Lidar Market Growth 2026-2032

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Abstracts

The global High-thread Lidar market size is predicted to grow from US\$ 579 million in 2025 to US\$ 3976 million in 2032; it is expected to grow at a CAGR of 31.8% from 2026 to 2032.

In 2025, global High-thread Lidar production reached approximately 1.69 million units with an average global market price of around US\$350 per unit. High-thread Lidar is a LiDAR system with multiple transmitting and receiving channels, capable of simultaneously transmitting laser beams in multiple vertical directions and receiving reflected signals to generate high-density three-dimensional point cloud data. The thread count is usually more than 16 lines, and can even reach higher levels such as 64 or 128 lines. This LiDAR can provide a more refined environment perception ability, suitable for automatic driving, robot navigation, three-dimensional modeling and other applications requiring high-precision and high-resolution three-dimensional information.

The high-thread lidar industry will become a core driver for corporate revenue growth, accompanying the commercialization of L3 and above autonomous driving. Huawei took the lead in releasing 896-line and over 500-thread lidar, with Voyah and other high-end models planning to debut with them, marking the evolution of products towards ultra-high line counts and image-grade resolution. By enhancing point cloud density and detection accuracy to meet the precise recognition needs of small obstacles in complex road conditions, product added value is enhanced and high-margin market share is expanded. In terms of technology roadmap, the industry will shift from parameter stacking to algorithmic collaboration. Although high line counts can improve perception performance, enterprises need to optimize computing power and algorithm support while hardware performance overflows, in order to solve processing challenges brought by massive data and build core technical barriers. Regarding price trends, lidar costs have seen a catastrophic decline. Enterprises like RoboSense have launched products priced below 200 USD. By significantly reducing costs through chip-based design and

supply chain optimization, enterprises promote product penetration into mainstream vehicles priced between 150,000 and 200,000 RMB, achieving large-scale application and optimizing profit structures. Future industry competition will shift from single hardware performance to software and hardware full-stack solutions, with automakers further releasing market potential through large-scale procurement to reduce marginal costs.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-thread Lidar 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 High-thread Lidar.

This report presents a comprehensive overview, market shares, and growth opportunities of High-thread Lidar market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

16-wire

64-wire

128-wire

256-wire

Others

Segmentation by Ranging Principle:

?50m

50?150m

150?300m

?300m

Segmentation by Field of View:

Horizontal FOV

Vertical FOV

Segmentation by Application:

Automotive

Robot

Security

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.

Innoviz Technologies

Valeo

SICK

Neuvition

Aeva Technologies

Koito

Ouster

Luminar

Huawei

Shenzhen Leishen Intelligent

Shenzhen RoboSense Technology

Tanway Technology

Suzhou Innovusion

Shenzhen Livox Technology

Beijing VanJee Technology

Beijing Richbeam

Hesai Group

Beijing Encradar

SureStar

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-thread Lidar market?

What factors are driving High-thread Lidar market growth, globally and by region?

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

How do High-thread Lidar market opportunities vary by end market size?

How does High-thread Lidar break out by Type, by Application?

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