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Global High-thread Lidar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-thread Lidar market size is expected to reach $ 3838 million by 2032, rising at a market growth of 30.0% CAGR during the forecast period (2026-2032).

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

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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.

This report studies the global High-thread Lidar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-thread 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 High-thread Lidar that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-thread Lidar total production and demand, 2021-2032, (K Units)
Global High-thread Lidar total production value, 2021-2032, (USD Million)
Global High-thread Lidar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global High-thread Lidar consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: High-thread Lidar domestic production, consumption, key domestic manufacturers and share
Global High-thread Lidar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global High-thread Lidar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global High-thread Lidar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High-thread 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 Innoviz Technologies, Valeo, SICK, Neuvition, Aeva Technologies, Koito, Ouster, Luminar, Huawei, Shenzhen Leishen Intelligent, etc.

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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 High-thread 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 High-thread Lidar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-thread Lidar Market, Segmentation by Type:

16-wire

64-wire

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128-wire

256-wire

Others

Global High-thread Lidar Market, Segmentation by Ranging Principle:

?50m

50?150m

150?300m

?300m

Global High-thread Lidar Market, Segmentation by Field of View:

Horizontal FOV

Vertical FOV

Global High-thread Lidar Market, Segmentation by Application:

Automotive

Robot

Security

Others

Companies Profiled:

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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

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Key Questions Answered:

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

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