

Global Automotive-grade 128-Channel LiDAR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive-grade 128-Channel LiDAR market size is expected to reach \$ 889 million by 2032, rising at a market growth of 24.8% CAGR during the forecast period (2026-2032).

An automotive-grade 128-channel LiDAR is a high-density 3D environmental scanning sensor that complies with automotive electronics and functional safety standards such as AEC-Q100 and ISO 26262, integrating 128 independent transmit and receive channels designed for sustained reliable operation under extreme conditions ranging from -40°C to 125°C, continuous vibration, and electromagnetic interference. Its architecture achieves a combination of 0.05° to 0.1° angular resolution and a detection range exceeding 250 meters through the 128-line vertical resolution, generating point clouds with millions of points per frame to provide more complete object contours and fine details for environmental modeling. What this solution delivers is the capability to simultaneously satisfy wide field of view and extremely high spatial resolution within a single sensor, thereby reducing inference uncertainty in downstream algorithms during target segmentation and state estimation. Its operational principle is manifested through the output of dense point clouds containing range, reflectivity, and multi-return information at a rated frame rate, while maintaining measurement accuracy consistency and traceability throughout the entire service life via on-board calibration, thermal compensation, and self-diagnostic mechanisms. In 2025, global Automotive-grade 128-Channel LiDAR production reached approximately 521 k units with an average global market price of around US\$350 per unit.

The future development trend of the Automotive-grade 128-Channel LiDAR industry is centered on the shift of corporate competition from a race over channel count to a compound contest of point cloud density and system integration depth. According to

Hesai Technology's publicly filed Nasdaq annual report and official announcements, the introduction of 128-channel products is not simply about adding more channels; rather, it involves constructing a denser vertical scanning field that elevates point cloud quality to a level sufficient for long-range small target perception in complex urban scenarios. This capability directly determines whether OEMs classify the sensor as a core component of the system-level perception architecture rather than a redundant backup. As disclosed in RoboSense's Hong Kong IPO prospectus, with 128-channel products entering mass production, the revenue structure is undergoing a fundamental transformation?the share of one-time hardware sales revenue is declining, while the share of revenue from perception algorithm licensing and service subscriptions developed around high-density point clouds is steadily increasing. Public news from international Tier 1 suppliers such as Valeo indicates that 128-channel LiDAR award projects are predominantly concentrated on next-generation flagship vehicle platforms, meaning that companies securing these awards will be deeply embedded in OEMs' product iteration cycles spanning several years, thereby generating long-term stable profit cash flows. According to relevant documents from the Chinese government's intelligent connected vehicle technology innovation roadmap, edge computing capabilities required for high-density point cloud processing are listed as a key common technology, which indirectly requires LiDAR companies not only to deliver the sensor itself but also to provide hardware interfaces and preliminary processing units that support 128-channel data throughput. It can be concluded that, unlike 64-channel which merely represents a parameter upgrade, 128-channel is redrawing the industry's profit threshold?companies possessing only hardware delivery capabilities will gradually retreat into low-margin contract manufacturing segments, while players mastering point cloud parsing algorithms and platform-level engineering capabilities will occupy the high ground of profit distribution.

This report studies the global Automotive-grade 128-Channel LiDAR production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive-grade 128-Channel 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 Automotive-grade 128-Channel LiDAR that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive-grade 128-Channel LiDAR total production and demand, 2021-2032, (K Units)

Global Automotive-grade 128-Channel LiDAR total production value, 2021-2032, (USD Million)

Global Automotive-grade 128-Channel LiDAR production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive-grade 128-Channel LiDAR consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive-grade 128-Channel LiDAR domestic production, consumption, key domestic manufacturers and share

Global Automotive-grade 128-Channel LiDAR production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive-grade 128-Channel LiDAR production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive-grade 128-Channel LiDAR production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive-grade 128-Channel 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 Ouster, RoboSense, Hesai Technology, Shenzhen Leishen Intelligent System, Beijing Beike Tianhui Technology, Wuhan Tianmou Photoelectric Technology, VanJee Technology, 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 Automotive-grade 128-Channel 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 Automotive-grade 128-Channel LiDAR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive-grade 128-Channel LiDAR Market, Segmentation by Type:

Short-range LiDAR

Long-range LiDAR

Global Automotive-grade 128-Channel LiDAR Market, Segmentation by Ranging Principle:

ToF

FMCW

Phase Shift

Hybrid Ranging

Global Automotive-grade 128-Channel LiDAR Market, Segmentation by Detection Range:

?100m

100?200m

200?300m

Above 300m

Global Automotive-grade 128-Channel LiDAR Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

Ouster

RoboSense

Hesai Technology

Shenzhen Leishen Intelligent System

Beijing Beike Tianhui Technology

Wuhan Tianmou Photoelectric Technology

VanJee Technology

Key Questions Answered:

1. How big is the global Automotive-grade 128-Channel LiDAR market?
2. What is the demand of the global Automotive-grade 128-Channel LiDAR market?
3. What is the year over year growth of the global Automotive-grade 128-Channel LiDAR market?
4. What is the production and production value of the global Automotive-grade

128-Channel LiDAR market?

5. Who are the key producers in the global Automotive-grade 128-Channel LiDAR market?

6. What are the growth factors driving the market demand?

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