

Global 64-channels Automotive LiDAR Scanner Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 64-channels Automotive LiDAR Scanner market size is expected to reach \$ 1068 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

In 2025, global 64-channels Automotive LiDAR Scanner production reached approximately 640 k units with an average global market price of around US\$350 per unit. The 64-channels Automotive LiDAR Scanner is a high-performance sensor tailor-made for automotive applications, meeting rigorous standards for stability and reliability to ensure vehicle safety in diverse and challenging environments. With a 64-line design, this scanner boasts 64 separate laseremission and reception channels that enable it to perform detailed 3D scans of the vehicle's surroundings with exceptional resolution and accuracy. This capability allows for comprehensive environmental monitoring, providing the autonomous driving system with precise, real-time data on distances and object shapes. Its core strength is the ability to operate accurately across a range of lighting and weather conditions, ensuring that the vehicle can make timely and precise decisions and responses while traveling at high speeds. Moreover, the 64-channels Automotive LiDAR Scanner's resilience in harsh conditions and its sustained high performance over the vehicle's lifetime are critical to the reliability of autonomous driving systems.

The future development trends of the 64-channels Automotive LiDAR Scanner industry are concentrated in the convergence of technical paths and the deep differentiation of enterprise competitive landscapes. Based on publicly available annual reports and authoritative news from companies such as Huawei and RoboSense, mainstream manufacturers are transitioning from mechanical to hybrid solid-state and one-dimensional rotating mirror architectures, aiming to reduce component complexity and

improve production line yield rates? factors directly impacting gross margin and delivery stability. Meanwhile, according to official announcements from Hesai Technology, LiDAR is evolving from a standalone perception component into a system-level product deeply coupled with underlying perception software, enabling a higher share of profit allocation within the Tier 1 pricing framework. On the other hand, annual reports and public news from international Tier 1 suppliers like Valeo show that automakers are shifting LiDAR programs from exploratory predevelopment to mass-production standard fitments, meaning order stability will become the core variable determining enterprise revenue baselines. Manufacturers without secured passenger-vehicle programs risk facing a homogenized and fragile profit structure. In summary, future industry competition will center on three dimensions: scalable delivery capability, depth of system integration, and automotive-grade supply chain resilience. Whichever company builds moats in these areas will secure a favorable position in profit distribution. In 2025, global 64-channels Automotive LiDAR Scanner production reached approximately 640 k units with an average global market price of around US\$350 per unit.

This report studies the global 64-channels Automotive LiDAR Scanner production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 64-channels Automotive LiDAR Scanner 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 64-channels Automotive LiDAR Scanner that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 64-channels Automotive LiDAR Scanner total production and demand, 2021-2032, (K Units)

Global 64-channels Automotive LiDAR Scanner total production value, 2021-2032, (USD Million)

Global 64-channels Automotive LiDAR Scanner production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 64-channels Automotive LiDAR Scanner consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 64-channels Automotive LiDAR Scanner domestic production, consumption, key domestic manufacturers and share

Global 64-channels Automotive LiDAR Scanner production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 64-channels Automotive LiDAR Scanner production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 64-channels Automotive LiDAR Scanner production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 64-channels Automotive LiDAR Scanner 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, Livox Technology (DJI), 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 64-channels Automotive LiDAR Scanner 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 64-channels Automotive LiDAR Scanner Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 64-channels Automotive LiDAR Scanner Market, Segmentation by Type:

Mechanical

Hybrid Solid-State

Fully Solid-State

Global 64-channels Automotive LiDAR Scanner Market, Segmentation by Ranging Principle:

ToF

FMCW

Phase Shift

Hybrid Ranging

Global 64-channels Automotive LiDAR Scanner Market, Segmentation by Detection Range:

?100m

100?200m

200?300m

Above 300m

Global 64-channels Automotive LiDAR Scanner Market, Segmentation by Application:

Autonomous Vehicle

Advanced Driver-Assistance Vehicle

Companies Profiled:

Ouster

Livox Technology (DJI)

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 64-channels Automotive LiDAR Scanner market?
2. What is the demand of the global 64-channels Automotive LiDAR Scanner market?
3. What is the year over year growth of the global 64-channels Automotive LiDAR Scanner market?
4. What is the production and production value of the global 64-channels Automotive LiDAR Scanner market?
5. Who are the key producers in the global 64-channels Automotive LiDAR Scanner market?
6. What are the growth factors driving the market demand?

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