

Global 4D Millimeter Wave Radar for Vehicles Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 4D Millimeter Wave Radar for Vehicles market size is expected to reach \$ 11337 million by 2032, rising at a market growth of 13.7% CAGR during the forecast period (2026-2032).

4D Millimeter Wave Radar for Vehicles functions as an advanced sensing system that utilizes radio waves to measure distance, relative velocity, horizontal angle, and elevation angle, thereby generating a four-dimensional point cloud representation of the surrounding environment. This technology enhances the capability to distinguish static obstacles from the road surface and to identify objects in complex overlapping traffic scenarios by adding vertical resolution to traditional radar data. By providing continuous and accurate detection under adverse weather conditions such as fog, rain, and darkness, it ensures reliable environmental perception where optical sensors might be compromised. Consequently, this sensor serves as a critical component for high-level autonomous driving systems, offering the necessary spatial detail to support precise decision-making and vehicle control. In 2025, global 4D Millimeter Wave Radar for Vehicles production reached approximately 42.67 million units with an average global market price of around US\$105 per unit.

The automotive 4D millimeter wave radar industry is accelerating towards high performance and high integration, with technological upgrades serving as the key for enterprises to optimize revenue structures and enhance profit margins. According to the 'Development Plan for the New Energy Vehicle Industry (2021-2035)' issued by the Ministry of Industry and Information Technology, the state explicitly proposes to break through core technologies for automotive sensors and support the development of advanced driver assistance systems, providing a policy foundation for the popularization of 4D millimeter wave radar. From a corporate management perspective, international

giants such as Bosch and Continental Group, as well as domestic manufacturers like Jingwei Hirain, emphasized in their annual reports and official news that they are significantly reducing production costs through self-developed proprietary chips and integrated hardware design, aiming to increase gross margins through economies of scale. Major industry trends indicate that products are transitioning from traditional detection units to perception modules with point cloud imaging capabilities, meeting the stringent requirements for environmental recognition accuracy in high-level autonomous driving. Meanwhile, enterprises are actively promoting multi-sensor fusion solutions combining this sensor with LiDAR and vision systems to enhance the irreplaceability of products in the vehicle architecture. The upstream and downstream sectors of the industry are deploying layouts around high-computing-power processing chips and advanced packaging technologies to adapt to the trend of centralization in automotive electronic and electrical architectures, driving the industry to continue moving towards high technical barriers and high value-added directions.

This report studies the global 4D Millimeter Wave Radar for Vehicles production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 4D Millimeter Wave Radar for Vehicles 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 4D Millimeter Wave Radar for Vehicles that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 4D Millimeter Wave Radar for Vehicles total production and demand, 2021-2032, (K Units)

Global 4D Millimeter Wave Radar for Vehicles total production value, 2021-2032, (USD Million)

Global 4D Millimeter Wave Radar for Vehicles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 4D Millimeter Wave Radar for Vehicles consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 4D Millimeter Wave Radar for Vehicles domestic production, consumption, key domestic manufacturers and share

Global 4D Millimeter Wave Radar for Vehicles production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 4D Millimeter Wave Radar for Vehicles production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 4D Millimeter Wave Radar for Vehicles production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 4D Millimeter Wave Radar for Vehicles 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 Bosch, Continental, ZF, Aptiv, Hella, Valeo, Veoneer, Arbe, Uhnder, Zadar Labs, 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 4D Millimeter Wave Radar for Vehicles 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 4D Millimeter Wave Radar for Vehicles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 4D Millimeter Wave Radar for Vehicles Market, Segmentation by Type:

?5?

2?5?

1?2?

?1?

Global 4D Millimeter Wave Radar for Vehicles Market, Segmentation by Mounting Position:

Front-mounted

Rear-mounted

Global 4D Millimeter Wave Radar for Vehicles Market, Segmentation by Detection Range:

?30 m

30?100m

100?250m

?250m

Global 4D Millimeter Wave Radar for Vehicles Market, Segmentation by Application:

Commercial Vehicle

Passenger Car

Companies Profiled:

Bosch

Continental

ZF

Aptiv

Hella

Valeo

Veoneer

Arbe

Uhnder

Zadar Labs

Smartmicro

Hitachi

Nidec Elesys

Ainstein

Vayyar

Desay SV Automotive

SenseTime Automotive

Sion Leading Motion

Huayu Automotive Systems

Key Questions Answered:

1. How big is the global 4D Millimeter Wave Radar for Vehicles market?
2. What is the demand of the global 4D Millimeter Wave Radar for Vehicles market?
3. What is the year over year growth of the global 4D Millimeter Wave Radar for Vehicles market?
4. What is the production and production value of the global 4D Millimeter Wave Radar for Vehicles market?
5. Who are the key producers in the global 4D Millimeter Wave Radar for Vehicles market?
6. What are the growth factors driving the market demand?

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