

# Global Single 4D Imaging Radar Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Single 4D Imaging Radar market size is expected to reach \$ 1264 million by 2032, rising at a market growth of 20.4% CAGR during the forecast period (2026-2032).

Single 4D Imaging Radar is a highly integrated radar solution that combines RF front-end circuits, digital signal processing, and 4D imaging capabilities on a single CMOS chip, enabling simultaneous detection of range, velocity, angle, and elevation with high resolution. It delivers compact architecture, low power consumption, and consistent signal performance while supporting advanced perception functions such as object contour reconstruction and dynamic environment mapping for automotive applications. In 2025, production was approximately 7.63 million units and the average price was USD 44 per unit. The industry's capacity utilization rate in 2025 was about 60% and the average gross margin was around 55%. Upstream, the most critical inputs include silicon wafers, photoresists, lithography machines, and etching tools, with representative suppliers such as ASML, Tokyo Electron, and Applied Materials providing essential semiconductor equipment and materials. The midstream segment includes system architecture design, RF front-end and baseband integration, 4D imaging algorithm development, digital signal processing, mixed-signal verification, and SoC-level functional integration, which together define imaging resolution, computational capability, and radar performance. Downstream, Single 4D Imaging Radar is used by angle radar and forward radar manufacturers such as Bosch, Continental, Aptiv, Valeo, Denso, ZF, and Huawei.

In the process of the evolution to a higher level of intelligence, traditional millimeter-wave radars can no longer meet the needs. Its perception information only contains distance and orientation, lacking height parameters, and cannot form high-density point cloud imaging, which makes it difficult to identify road targets. Although lidar with high-

density point cloud imaging capability can solve the pain points of traditional millimeter-wave radar, the cost of lidar is high, and there are natural defects that cannot work around the clock. Therefore, 4D imaging radar has attracted the attention of the industry.

This report studies the global Single 4D Imaging Radar production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Single 4D Imaging Radar total production and demand, 2021-2032, (Million Units)

Global Single 4D Imaging Radar total production value, 2021-2032, (USD Million)

Global Single 4D Imaging Radar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Single 4D Imaging Radar consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Single 4D Imaging Radar domestic production, consumption, key domestic manufacturers and share

Global Single 4D Imaging Radar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Single 4D Imaging Radar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Single 4D Imaging Radar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Single 4D Imaging Radar 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 Texas Instruments, Infineon Technologies, Arbe Robotics, Smartmicro, Muniu Tech, WHST, HUAWEI, Calterah Semiconductor, 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 Single 4D Imaging Radar market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Single 4D Imaging Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Single 4D Imaging Radar Market, Segmentation by Type:

4Tx/4Rx

3Tx/4Rx

Others

### Global Single 4D Imaging Radar Market, Segmentation by Process Node:

40nm

28nm

Others

### Global Single 4D Imaging Radar Market, Segmentation by Grade:

ISO 26262 ASIL-B

ISO 26262 ASIL-C

Others

### Global Single 4D Imaging Radar Market, Segmentation by Application:

Corner Radar

Front Radar

Others

### Companies Profiled:

Texas Instruments

Infineon Technologies

Arbe Robotics

Smartmicro

Muniu Tech

WHST

HUAWEI

Calterah Semiconductor

**Key Questions Answered:**

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

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