

Global 4D Full-Range Radar Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 4D Full-Range Radar market size was valued at US\$ 1183 million in 2025 and is forecast to a readjusted size of US\$ 2525 million by 2032 with a CAGR of 9.5% during review period.

4D imaging radar is an advanced automotive perception system that can simultaneously detect four dimensions of target information: distance, speed, horizontal angle, and vertical angle. Compared to traditional 3D radar, it can generate high-resolution point cloud data, achieving more accurate environmental perception. This technology employs MIMO antenna arrays, digital beamforming, and signal processing algorithms to accurately identify vehicles, pedestrians, and obstacles in long-distance and complex environments. 4D imaging radar is widely used in adaptive cruise control, automatic emergency braking, highway navigation, and autonomous driving systems, providing core perception capabilities for next-generation vehicles. The upstream of the 4D imaging radar industry chain includes semiconductor chips, millimeter-wave RF modules, antenna arrays, printed circuit boards, and high-speed signal processors. The midstream consists of radar module manufacturers responsible for radar design, assembly, antenna arrays, digital signal processing, and software algorithm integration. Downstream applications cover OEMs, ADAS system suppliers, and autonomous driving technology companies. The industry chain also includes algorithm development, system integration, automotive electronics supply, testing, and calibration services to ensure accurate and reliable radar perception in complex driving environments. Global production of 4D imaging radar is projected to reach approximately 12,778,000 units in 2025, with an average market price of around US\$90 per unit. The industry's gross margin is estimated at 35%-50%. Global production capacity is projected to reach approximately 16,000,000 units in 2025.

The market for 4D Full-Range Radar is driven by the increasing demand for advanced driver-assistance systems (ADAS) and autonomous driving technologies. Enhanced object detection, real-time data processing, and integration with vehicle control systems are key growth factors. The adoption of radar-on-chip technologies reduces system size and cost while maintaining performance. OEMs and Tier-1 suppliers are investing in R&D to improve radar resolution, range, and multi-target tracking capabilities. Overall, regulatory support for vehicle safety standards and the expansion of electric and autonomous vehicles further propel market growth.

This report is a detailed and comprehensive analysis for global 4D Full-Range Radar market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 4D Full-Range Radar market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 4D Full-Range Radar market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 4D Full-Range Radar market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 4D Full-Range Radar market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 4D Full-Range Radar

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 4D Full-Range Radar market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ZF Friedrichshafen AG, Vayyar, Qamcom, Continental AG, Altos Radar, Aptiv, HUAWEI, Ambarella, Smartmicro, Geometrical Perception and Learning, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

4D Full-Range Radar market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Less Than 100 Meters

100-300 Meters

300-500 Meters

More Than 500 Meters

Market segment by Frequency Band

24GHz Radar

77GHz Radar

79GHz Radar

Market segment by Installation Position

Forward-facing Main Radar

Angle Radar

Market segment by Application

Car

Drone

Consumer Electronics

Military Industry

Other

Major players covered

ZF Friedrichshafen AG

Vayyar

Qamcom

Continental AG

Altos Radar

Aptiv

HUAWEI

Ambarella

Smartmicro

Geometrical Perception and Learning

ANNGIC

Whst Co., Ltd.

SINPRO Intelligent Technology(shanghai) Co., Ltd.

Shenzhen Chengtai Technology Co. Ltd

Arbe

RadSee

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 4D Full-Range Radar product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4D Full-Range Radar, with price, sales quantity, revenue, and global market share of 4D Full-Range Radar from 2021 to 2026.

Chapter 3, the 4D Full-Range Radar competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4D Full-Range Radar breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 4D Full-Range Radar market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 4D Full-Range Radar.

Chapter 14 and 15, to describe 4D Full-Range Radar sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global 4D Full-Range Radar Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Less Than 100 Meters

1.3.3 100-300 Meters

1.3.4 300-500 Meters

1.3.5 More Than 500 Meters

1.4 Market Analysis by Frequency Band

1.4.1 Overview: Global 4D Full-Range Radar Consumption Value by Frequency Band: 2021 Versus 2025 Versus 2032

1.4.2 24GHz Radar

1.4.3 77GHz Radar

1.4.4 79GHz Radar

1.5 Market Analysis by Installation Position

1.5.1 Overview: Global 4D Full-Range Radar Consumption Value by Installation Position: 2021 Versus 2025 Versus 2032

1.5.2 Forward-facing Main Radar

1.5.3 Angle Radar

1.6 Market Analysis by Application

1.6.1 Overview: Global 4D Full-Range Radar Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Car

1.6.3 Drone

1.6.4 Consumer Electronics

1.6.5 Military Industry

1.6.6 Other

1.7 Global 4D Full-Range Radar Market Size & Forecast

1.7.1 Global 4D Full-Range Radar Consumption Value (2021 & 2025 & 2032)

1.7.2 Global 4D Full-Range Radar Sales Quantity (2021-2032)

1.7.3 Global 4D Full-Range Radar Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 ZF Friedrichshafen AG

2.1.1 ZF Friedrichshafen AG Details

2.1.2 ZF Friedrichshafen AG Major Business

2.1.3 ZF Friedrichshafen AG 4D Full-Range Radar Product and Services

2.1.4 ZF Friedrichshafen AG 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 ZF Friedrichshafen AG Recent Developments/Updates

2.2 Vayyar

2.2.1 Vayyar Details

2.2.2 Vayyar Major Business

2.2.3 Vayyar 4D Full-Range Radar Product and Services

2.2.4 Vayyar 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Vayyar Recent Developments/Updates

2.3 Qamcom

2.3.1 Qamcom Details

2.3.2 Qamcom Major Business

2.3.3 Qamcom 4D Full-Range Radar Product and Services

2.3.4 Qamcom 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Qamcom Recent Developments/Updates

2.4 Continental AG

2.4.1 Continental AG Details

2.4.2 Continental AG Major Business

2.4.3 Continental AG 4D Full-Range Radar Product and Services

2.4.4 Continental AG 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Continental AG Recent Developments/Updates

2.5 Altos Radar

2.5.1 Altos Radar Details

2.5.2 Altos Radar Major Business

2.5.3 Altos Radar 4D Full-Range Radar Product and Services

2.5.4 Altos Radar 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Altos Radar Recent Developments/Updates

2.6 Aptiv

2.6.1 Aptiv Details

2.6.2 Aptiv Major Business

2.6.3 Aptiv 4D Full-Range Radar Product and Services

2.6.4 Aptiv 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Aptiv Recent Developments/Updates

2.7 HUAWEI

2.7.1 HUAWEI Details

2.7.2 HUAWEI Major Business

2.7.3 HUAWEI 4D Full-Range Radar Product and Services

2.7.4 HUAWEI 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 HUAWEI Recent Developments/Updates

2.8 Ambarella

2.8.1 Ambarella Details

2.8.2 Ambarella Major Business

2.8.3 Ambarella 4D Full-Range Radar Product and Services

2.8.4 Ambarella 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Ambarella Recent Developments/Updates

2.9 Smartmicro

2.9.1 Smartmicro Details

2.9.2 Smartmicro Major Business

2.9.3 Smartmicro 4D Full-Range Radar Product and Services

2.9.4 Smartmicro 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Smartmicro Recent Developments/Updates

2.10 Geometrical Perception and Learning

2.10.1 Geometrical Perception and Learning Details

2.10.2 Geometrical Perception and Learning Major Business

2.10.3 Geometrical Perception and Learning 4D Full-Range Radar Product and Services

2.10.4 Geometrical Perception and Learning 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Geometrical Perception and Learning Recent Developments/Updates

2.11 ANNGIC

2.11.1 ANNGIC Details

2.11.2 ANNGIC Major Business

2.11.3 ANNGIC 4D Full-Range Radar Product and Services

2.11.4 ANNGIC 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 ANNGIC Recent Developments/Updates

2.12 Whst Co., Ltd.

2.12.1 Whst Co., Ltd. Details

2.12.2 Whst Co., Ltd. Major Business

2.12.3 Whst Co., Ltd. 4D Full-Range Radar Product and Services

2.12.4 Whst Co., Ltd. 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Whst Co., Ltd. Recent Developments/Updates

2.13 SINPRO Intelligent Technology(shanghai) Co., Ltd.

2.13.1 SINPRO Intelligent Technology(shanghai) Co., Ltd. Details

2.13.2 SINPRO Intelligent Technology(shanghai) Co., Ltd. Major Business

2.13.3 SINPRO Intelligent Technology(shanghai) Co., Ltd. 4D Full-Range Radar Product and Services

2.13.4 SINPRO Intelligent Technology(shanghai) Co., Ltd. 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 SINPRO Intelligent Technology(shanghai) Co., Ltd. Recent Developments/Updates

2.14 Shenzhen Chengtai Technology Co. Ltd

2.14.1 Shenzhen Chengtai Technology Co. Ltd Details

2.14.2 Shenzhen Chengtai Technology Co. Ltd Major Business

2.14.3 Shenzhen Chengtai Technology Co. Ltd 4D Full-Range Radar Product and Services

2.14.4 Shenzhen Chengtai Technology Co. Ltd 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Shenzhen Chengtai Technology Co. Ltd Recent Developments/Updates

2.15 Arbe

2.15.1 Arbe Details

2.15.2 Arbe Major Business

2.15.3 Arbe 4D Full-Range Radar Product and Services

2.15.4 Arbe 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Arbe Recent Developments/Updates

2.16 RadSee

2.16.1 RadSee Details

2.16.2 RadSee Major Business

2.16.3 RadSee 4D Full-Range Radar Product and Services

2.16.4 RadSee 4D Full-Range Radar Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 RadSee Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: 4D FULL-RANGE RADAR BY MANUFACTURER

- 3.1 Global 4D Full-Range Radar Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global 4D Full-Range Radar Revenue by Manufacturer (2021-2026)
- 3.3 Global 4D Full-Range Radar Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of 4D Full-Range Radar by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 4D Full-Range Radar Manufacturer Market Share in 2025
 - 3.4.3 Top 6 4D Full-Range Radar Manufacturer Market Share in 2025
- 3.5 4D Full-Range Radar Market: Overall Company Footprint Analysis
 - 3.5.1 4D Full-Range Radar Market: Region Footprint
 - 3.5.2 4D Full-Range Radar Market: Company Product Type Footprint
 - 3.5.3 4D Full-Range Radar Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global 4D Full-Range Radar Market Size by Region
 - 4.1.1 Global 4D Full-Range Radar Sales Quantity by Region (2021-2032)
 - 4.1.2 Global 4D Full-Range Radar Consumption Value by Region (2021-2032)
 - 4.1.3 Global 4D Full-Range Radar Average Price by Region (2021-2032)
- 4.2 North America 4D Full-Range Radar Consumption Value (2021-2032)
- 4.3 Europe 4D Full-Range Radar Consumption Value (2021-2032)
- 4.4 Asia-Pacific 4D Full-Range Radar Consumption Value (2021-2032)
- 4.5 South America 4D Full-Range Radar Consumption Value (2021-2032)
- 4.6 Middle East & Africa 4D Full-Range Radar Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global 4D Full-Range Radar Sales Quantity by Type (2021-2032)
- 5.2 Global 4D Full-Range Radar Consumption Value by Type (2021-2032)
- 5.3 Global 4D Full-Range Radar Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global 4D Full-Range Radar Sales Quantity by Application (2021-2032)
- 6.2 Global 4D Full-Range Radar Consumption Value by Application (2021-2032)

6.3 Global 4D Full-Range Radar Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America 4D Full-Range Radar Sales Quantity by Type (2021-2032)

7.2 North America 4D Full-Range Radar Sales Quantity by Application (2021-2032)

7.3 North America 4D Full-Range Radar Market Size by Country

7.3.1 North America 4D Full-Range Radar Sales Quantity by Country (2021-2032)

7.3.2 North America 4D Full-Range Radar Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe 4D Full-Range Radar Sales Quantity by Type (2021-2032)

8.2 Europe 4D Full-Range Radar Sales Quantity by Application (2021-2032)

8.3 Europe 4D Full-Range Radar Market Size by Country

8.3.1 Europe 4D Full-Range Radar Sales Quantity by Country (2021-2032)

8.3.2 Europe 4D Full-Range Radar Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific 4D Full-Range Radar Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific 4D Full-Range Radar Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific 4D Full-Range Radar Market Size by Region

9.3.1 Asia-Pacific 4D Full-Range Radar Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific 4D Full-Range Radar Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America 4D Full-Range Radar Sales Quantity by Type (2021-2032)

10.2 South America 4D Full-Range Radar Sales Quantity by Application (2021-2032)

10.3 South America 4D Full-Range Radar Market Size by Country

10.3.1 South America 4D Full-Range Radar Sales Quantity by Country (2021-2032)

10.3.2 South America 4D Full-Range Radar Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa 4D Full-Range Radar Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa 4D Full-Range Radar Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa 4D Full-Range Radar Market Size by Country

11.3.1 Middle East & Africa 4D Full-Range Radar Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa 4D Full-Range Radar Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 4D Full-Range Radar Market Drivers

12.2 4D Full-Range Radar Market Restraints

12.3 4D Full-Range Radar Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of 4D Full-Range Radar and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of 4D Full-Range Radar
- 13.3 4D Full-Range Radar Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 4D Full-Range Radar Typical Distributors
- 14.3 4D Full-Range Radar Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global 4D Full-Range Radar Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global 4D Full-Range Radar Consumption Value by Frequency Band, (USD Million), 2021 & 2025 & 2032

Table 3. Global 4D Full-Range Radar Consumption Value by Installation Position, (USD Million), 2021 & 2025 & 2032

Table 4. Global 4D Full-Range Radar Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. ZF Friedrichshafen AG Basic Information, Manufacturing Base and Competitors

Table 6. ZF Friedrichshafen AG Major Business

Table 7. ZF Friedrichshafen AG 4D Full-Range Radar Product and Services

Table 8. ZF Friedrichshafen AG 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. ZF Friedrichshafen AG Recent Developments/Updates

Table 10. Vayyar Basic Information, Manufacturing Base and Competitors

Table 11. Vayyar Major Business

Table 12. Vayyar 4D Full-Range Radar Product and Services

Table 13. Vayyar 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Vayyar Recent Developments/Updates

Table 15. Qamcom Basic Information, Manufacturing Base and Competitors

Table 16. Qamcom Major Business

Table 17. Qamcom 4D Full-Range Radar Product and Services

Table 18. Qamcom 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Qamcom Recent Developments/Updates

Table 20. Continental AG Basic Information, Manufacturing Base and Competitors

Table 21. Continental AG Major Business

Table 22. Continental AG 4D Full-Range Radar Product and Services

Table 23. Continental AG 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Continental AG Recent Developments/Updates

Table 25. Altos Radar Basic Information, Manufacturing Base and Competitors

Table 26. Altos Radar Major Business

Table 27. Altos Radar 4D Full-Range Radar Product and Services

Table 28. Altos Radar 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Altos Radar Recent Developments/Updates

Table 30. Aptiv Basic Information, Manufacturing Base and Competitors

Table 31. Aptiv Major Business

Table 32. Aptiv 4D Full-Range Radar Product and Services

Table 33. Aptiv 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Aptiv Recent Developments/Updates

Table 35. HUAWEI Basic Information, Manufacturing Base and Competitors

Table 36. HUAWEI Major Business

Table 37. HUAWEI 4D Full-Range Radar Product and Services

Table 38. HUAWEI 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. HUAWEI Recent Developments/Updates

Table 40. Ambarella Basic Information, Manufacturing Base and Competitors

Table 41. Ambarella Major Business

Table 42. Ambarella 4D Full-Range Radar Product and Services

Table 43. Ambarella 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Ambarella Recent Developments/Updates

Table 45. Smartmicro Basic Information, Manufacturing Base and Competitors

Table 46. Smartmicro Major Business

Table 47. Smartmicro 4D Full-Range Radar Product and Services

Table 48. Smartmicro 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Smartmicro Recent Developments/Updates

Table 50. Geometrical Perception and Learning Basic Information, Manufacturing Base and Competitors

Table 51. Geometrical Perception and Learning Major Business

Table 52. Geometrical Perception and Learning 4D Full-Range Radar Product and Services

Table 53. Geometrical Perception and Learning 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Geometrical Perception and Learning Recent Developments/Updates

Table 55. ANNGIC Basic Information, Manufacturing Base and Competitors

Table 56. ANNGIC Major Business

Table 57. ANNGIC 4D Full-Range Radar Product and Services

Table 58. ANNGIC 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. ANNGIC Recent Developments/Updates

Table 60. Whst Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 61. Whst Co., Ltd. Major Business

Table 62. Whst Co., Ltd. 4D Full-Range Radar Product and Services

Table 63. Whst Co., Ltd. 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Whst Co., Ltd. Recent Developments/Updates

Table 65. SINPRO Intelligent Technology(shanghai) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 66. SINPRO Intelligent Technology(shanghai) Co., Ltd. Major Business

Table 67. SINPRO Intelligent Technology(shanghai) Co., Ltd. 4D Full-Range Radar Product and Services

Table 68. SINPRO Intelligent Technology(shanghai) Co., Ltd. 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. SINPRO Intelligent Technology(shanghai) Co., Ltd. Recent Developments/Updates

Table 70. Shenzhen Chengtai Technology Co. Ltd Basic Information, Manufacturing Base and Competitors

Table 71. Shenzhen Chengtai Technology Co. Ltd Major Business

Table 72. Shenzhen Chengtai Technology Co. Ltd 4D Full-Range Radar Product and Services

Table 73. Shenzhen Chengtai Technology Co. Ltd 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Shenzhen Chengtai Technology Co. Ltd Recent Developments/Updates

Table 75. Arbe Basic Information, Manufacturing Base and Competitors

Table 76. Arbe Major Business

Table 77. Arbe 4D Full-Range Radar Product and Services

Table 78. Arbe 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Arbe Recent Developments/Updates

Table 80. RadSee Basic Information, Manufacturing Base and Competitors

Table 81. RadSee Major Business

Table 82. RadSee 4D Full-Range Radar Product and Services

Table 83. RadSee 4D Full-Range Radar Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. RadSee Recent Developments/Updates

Table 85. Global 4D Full-Range Radar Sales Quantity by Manufacturer (2021-2026) & (Million Units)

Table 86. Global 4D Full-Range Radar Revenue by Manufacturer (2021-2026) & (USD Million)

Table 87. Global 4D Full-Range Radar Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 88. Market Position of Manufacturers in 4D Full-Range Radar, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 89. Head Office and 4D Full-Range Radar Production Site of Key Manufacturer

Table 90. 4D Full-Range Radar Market: Company Product Type Footprint

Table 91. 4D Full-Range Radar Market: Company Product Application Footprint

Table 92. 4D Full-Range Radar New Market Entrants and Barriers to Market Entry

Table 93. 4D Full-Range Radar Mergers, Acquisition, Agreements, and Collaborations

Table 94. Global 4D Full-Range Radar Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 95. Global 4D Full-Range Radar Sales Quantity by Region (2021-2026) & (Million Units)

Table 96. Global 4D Full-Range Radar Sales Quantity by Region (2027-2032) & (Million Units)

Table 97. Global 4D Full-Range Radar Consumption Value by Region (2021-2026) & (USD Million)

Table 98. Global 4D Full-Range Radar Consumption Value by Region (2027-2032) & (USD Million)

Table 99. Global 4D Full-Range Radar Average Price by Region (2021-2026) & (US\$/Unit)

Table 100. Global 4D Full-Range Radar Average Price by Region (2027-2032) & (US\$/Unit)

Table 101. Global 4D Full-Range Radar Sales Quantity by Type (2021-2026) & (Million Units)

Table 102. Global 4D Full-Range Radar Sales Quantity by Type (2027-2032) & (Million Units)

Table 103. Global 4D Full-Range Radar Consumption Value by Type (2021-2026) & (USD Million)

Table 104. Global 4D Full-Range Radar Consumption Value by Type (2027-2032) & (USD Million)

Table 105. Global 4D Full-Range Radar Average Price by Type (2021-2026) &

(US\$/Unit)

Table 106. Global 4D Full-Range Radar Average Price by Type (2027-2032) &

(US\$/Unit)

Table 107. Global 4D Full-Range Radar Sales Quantity by Application (2021-2026) &

(Million Units)

Table 108. Global 4D Full-Range Radar Sales Quantity by Application (2027-2032) &

(Million Units)

Table 109. Global 4D Full-Range Radar Consumption Value by Application (2021-2026)

& (USD Million)

Table 110. Global 4D Full-Range Radar Consumption Value by Application (2027-2032)

& (USD Million)

Table 111. Global 4D Full-Range Radar Average Price by Application (2021-2026) &

(US\$/Unit)

Table 112. Global 4D Full-Range Radar Average Price by Application (2027-2032) &

(US\$/Unit)

Table 113. North America 4D Full-Range Radar Sales Quantity by Type (2021-2026) &

(Million Units)

Table 114. North America 4D Full-Range Radar Sales Quantity by Type (2027-2032) &

(Million Units)

Table 115. North America 4D Full-Range Radar Sales Quantity by Application

(2021-2026) & (Million Units)

Table 116. North America 4D Full-Range Radar Sales Quantity by Application

(2027-2032) & (Million Units)

Table 117. North America 4D Full-Range Radar Sales Quantity by Country (2021-2026)

& (Million Units)

Table 118. North America 4D Full-Range Radar Sales Quantity by Country (2027-2032)

& (Million Units)

Table 119. North America 4D Full-Range Radar Consumption Value by Country

(2021-2026) & (USD Million)

Table 120. North America 4D Full-Range Radar Consumption Value by Country

(2027-2032) & (USD Million)

Table 121. Europe 4D Full-Range Radar Sales Quantity by Type (2021-2026) & (Million

Units)

Table 122. Europe 4D Full-Range Radar Sales Quantity by Type (2027-2032) & (Million

Units)

Table 123. Europe 4D Full-Range Radar Sales Quantity by Application (2021-2026) &

(Million Units)

Table 124. Europe 4D Full-Range Radar Sales Quantity by Application (2027-2032) &

(Million Units)

Table 125. Europe 4D Full-Range Radar Sales Quantity by Country (2021-2026) & (Million Units)

Table 126. Europe 4D Full-Range Radar Sales Quantity by Country (2027-2032) & (Million Units)

Table 127. Europe 4D Full-Range Radar Consumption Value by Country (2021-2026) & (USD Million)

Table 128. Europe 4D Full-Range Radar Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Asia-Pacific 4D Full-Range Radar Sales Quantity by Type (2021-2026) & (Million Units)

Table 130. Asia-Pacific 4D Full-Range Radar Sales Quantity by Type (2027-2032) & (Million Units)

Table 131. Asia-Pacific 4D Full-Range Radar Sales Quantity by Application (2021-2026) & (Million Units)

Table 132. Asia-Pacific 4D Full-Range Radar Sales Quantity by Application (2027-2032) & (Million Units)

Table 133. Asia-Pacific 4D Full-Range Radar Sales Quantity by Region (2021-2026) & (Million Units)

Table 134. Asia-Pacific 4D Full-Range Radar Sales Quantity by Region (2027-2032) & (Million Units)

Table 135. Asia-Pacific 4D Full-Range Radar Consumption Value by Region (2021-2026) & (USD Million)

Table 136. Asia-Pacific 4D Full-Range Radar Consumption Value by Region (2027-2032) & (USD Million)

Table 137. South America 4D Full-Range Radar Sales Quantity by Type (2021-2026) & (Million Units)

Table 138. South America 4D Full-Range Radar Sales Quantity by Type (2027-2032) & (Million Units)

Table 139. South America 4D Full-Range Radar Sales Quantity by Application (2021-2026) & (Million Units)

Table 140. South America 4D Full-Range Radar Sales Quantity by Application (2027-2032) & (Million Units)

Table 141. South America 4D Full-Range Radar Sales Quantity by Country (2021-2026) & (Million Units)

Table 142. South America 4D Full-Range Radar Sales Quantity by Country (2027-2032) & (Million Units)

Table 143. South America 4D Full-Range Radar Consumption Value by Country (2021-2026) & (USD Million)

Table 144. South America 4D Full-Range Radar Consumption Value by Country

(2027-2032) & (USD Million)

Table 145. Middle East & Africa 4D Full-Range Radar Sales Quantity by Type

(2021-2026) & (Million Units)

Table 146. Middle East & Africa 4D Full-Range Radar Sales Quantity by Type

(2027-2032) & (Million Units)

Table 147. Middle East & Africa 4D Full-Range Radar Sales Quantity by Application

(2021-2026) & (Million Units)

Table 148. Middle East & Africa 4D Full-Range Radar Sales Quantity by Application

(2027-2032) & (Million Units)

Table 149. Middle East & Africa 4D Full-Range Radar Sales Quantity by Country

(2021-2026) & (Million Units)

Table 150. Middle East & Africa 4D Full-Range Radar Sales Quantity by Country

(2027-2032) & (Million Units)

Table 151. Middle East & Africa 4D Full-Range Radar Consumption Value by Country

(2021-2026) & (USD Million)

Table 152. Middle East & Africa 4D Full-Range Radar Consumption Value by Country

(2027-2032) & (USD Million)

Table 153. 4D Full-Range Radar Raw Material

Table 154. Key Manufacturers of 4D Full-Range Radar Raw Materials

Table 155. 4D Full-Range Radar Typical Distributors

Table 156. 4D Full-Range Radar Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. 4D Full-Range Radar Picture

Figure 2. Global 4D Full-Range Radar Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global 4D Full-Range Radar Revenue Market Share by Type in 2025

Figure 4. Less Than 100 Meters Examples

Figure 5. 100-300 Meters Examples

Figure 6. 300-500 Meters Examples

Figure 7. More Than 500 Meters Examples

Figure 8. Global 4D Full-Range Radar Revenue by Frequency Band, (USD Million), 2021 & 2025 & 2032

Figure 9. Global 4D Full-Range Radar Revenue Market Share by Frequency Band in 2025

Figure 10. 24GHz Radar Examples

Figure 11. 77GHz Radar Examples

Figure 12. 79GHz Radar Examples

Figure 13. Global 4D Full-Range Radar Revenue by Installation Position, (USD Million), 2021 & 2025 & 2032

Figure 14. Global 4D Full-Range Radar Revenue Market Share by Installation Position in 2025

Figure 15. Forward-facing Main Radar Examples

Figure 16. Angle Radar Examples

Figure 17. Global 4D Full-Range Radar Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 18. Global 4D Full-Range Radar Revenue Market Share by Application in 2025

Figure 19. Car Examples

Figure 20. Drone Examples

Figure 21. Consumer Electronics Examples

Figure 22. Military Industry Examples

Figure 23. Other Examples

Figure 24. Global 4D Full-Range Radar Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 25. Global 4D Full-Range Radar Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global 4D Full-Range Radar Sales Quantity (2021-2032) & (Million Units)

Figure 27. Global 4D Full-Range Radar Price (2021-2032) & (US\$/Unit)

Figure 28. Global 4D Full-Range Radar Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global 4D Full-Range Radar Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of 4D Full-Range Radar by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 4D Full-Range Radar Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 4D Full-Range Radar Manufacturer (Revenue) Market Share in 2025

Figure 33. Global 4D Full-Range Radar Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global 4D Full-Range Radar Consumption Value Market Share by Region (2021-2032)

Figure 35. North America 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 38. South America 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 40. Global 4D Full-Range Radar Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global 4D Full-Range Radar Consumption Value Market Share by Type (2021-2032)

Figure 42. Global 4D Full-Range Radar Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. Global 4D Full-Range Radar Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global 4D Full-Range Radar Revenue Market Share by Application (2021-2032)

Figure 45. Global 4D Full-Range Radar Average Price by Application (2021-2032) & (US\$/Unit)

Figure 46. North America 4D Full-Range Radar Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America 4D Full-Range Radar Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America 4D Full-Range Radar Sales Quantity Market Share by

Country (2021-2032)

Figure 49. North America 4D Full-Range Radar Consumption Value Market Share by Country (2021-2032)

Figure 50. United States 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe 4D Full-Range Radar Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe 4D Full-Range Radar Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe 4D Full-Range Radar Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe 4D Full-Range Radar Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 58. France 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific 4D Full-Range Radar Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific 4D Full-Range Radar Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific 4D Full-Range Radar Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific 4D Full-Range Radar Consumption Value Market Share by Region (2021-2032)

Figure 66. China 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 67. Japan 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)

- Figure 69. India 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)
- Figure 70. Southeast Asia 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)
- Figure 71. Australia 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)
- Figure 72. South America 4D Full-Range Radar Sales Quantity Market Share by Type (2021-2032)
- Figure 73. South America 4D Full-Range Radar Sales Quantity Market Share by Application (2021-2032)
- Figure 74. South America 4D Full-Range Radar Sales Quantity Market Share by Country (2021-2032)
- Figure 75. South America 4D Full-Range Radar Consumption Value Market Share by Country (2021-2032)
- Figure 76. Brazil 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)
- Figure 77. Argentina 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)
- Figure 78. Middle East & Africa 4D Full-Range Radar Sales Quantity Market Share by Type (2021-2032)
- Figure 79. Middle East & Africa 4D Full-Range Radar Sales Quantity Market Share by Application (2021-2032)
- Figure 80. Middle East & Africa 4D Full-Range Radar Sales Quantity Market Share by Country (2021-2032)
- Figure 81. Middle East & Africa 4D Full-Range Radar Consumption Value Market Share by Country (2021-2032)
- Figure 82. Turkey 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)
- Figure 83. Egypt 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)
- Figure 84. Saudi Arabia 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)
- Figure 85. South Africa 4D Full-Range Radar Consumption Value (2021-2032) & (USD Million)
- Figure 86. 4D Full-Range Radar Market Drivers
- Figure 87. 4D Full-Range Radar Market Restraints
- Figure 88. 4D Full-Range Radar Market Trends
- Figure 89. Porters Five Forces Analysis
- Figure 90. Manufacturing Cost Structure Analysis of 4D Full-Range Radar in 2025
- Figure 91. Manufacturing Process Analysis of 4D Full-Range Radar
- Figure 92. 4D Full-Range Radar Industrial Chain
- Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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