

Global Millimeter Wave Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Millimeter Wave Radar market size is expected to reach \$ 56070 million by 2032, rising at a market growth of 17.2% CAGR during the forecast period (2026-2032).

Millimeter-wave radar is a sensing technology that uses electromagnetic waves in the millimeter-wave frequency bands (typically 24GHz, 60GHz, 77GHz, etc.) to detect and measure targets. It offers high resolution, strong penetration through rain and fog, and accurate detection of distance, speed, and angle. Millimeter-wave radars are widely used in automotive advanced driver-assistance systems (ADAS), such as adaptive cruise control, blind-spot detection, and automatic emergency braking.

Millimeter-wave radar has become a core sensor in automotive ADAS (Advanced Driver Assistance Systems) and intelligent driving systems, maintaining rapid growth in recent years and becoming an indispensable part of smart vehicle perception systems.

By frequency band, the current mainstream market is dominated by 77GHz radar, especially in the 77–81GHz range, which has become the preferred choice for front-facing radars in passenger vehicles due to its longer detection range and higher resolution, gradually replacing traditional 24GHz radars. Although 24GHz products are still widely used in side and short-range scenarios such as Blind Spot Detection (BSD) because of their lower cost, they are being gradually upgraded to higher frequencies due to regulatory policies and technological advancements. Overall, the trend shows that high-resolution, wide-bandwidth 77GHz radars will continue to dominate the global passenger car and high-end commercial vehicle markets.

Regarding product types, millimeter-wave radars can be divided into short-range radar (SRR), mid-range radar (MRR), and long-range radar (LRR). LRRs are mainly used for

front-facing functions such as Adaptive Cruise Control (ACC) and Automatic Emergency Braking (AEB). MRRs serve both front and rear detection needs, while SRRs are widely applied in surround-view systems, blind spot monitoring, and parking assistance. Next-generation vehicles, especially those with advanced driver assistance levels (L2+ to L3), commonly adopt a radar fusion scheme of '1 front LRR + 2 side SRR + 1 rear SRR.' Higher-end models further upgrade to configurations with 5 to 7 radars, sometimes adding R1 corner radars for higher resolution near-range perception.

In terms of market landscape, China has become the largest global market for millimeter-wave radar, with continuously rising radar penetration rates in passenger cars, particularly rapid growth in new energy vehicles and premium models. Leading Chinese brands such as BYD, NIO, Li Auto, and XPeng are accelerating the deployment of high-end radar systems, with gradually improved self-developed and Tier 1 supplier ecosystems. Overseas markets are dominated by traditional Tier 1 suppliers like Continental, Bosch, Valeo, Hitachi Astemo, Denso, and Aptiv. Japanese and Korean OEMs often use a combination of in-house development and local Tier 1 suppliers.

Over the next five years, the global millimeter-wave radar market is expected to maintain a high compound annual growth rate, with particularly strong momentum in China, and the penetration of 77GHz and higher-frequency products will continue to rise. Undoubtedly, millimeter-wave radar will play a key role in the mass-market adoption and democratization of intelligent driving technology.

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

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

Highlights and key features of the study

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

Global Millimeter Wave Radar total production value, 2021-2032, (USD Million)

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

Global Millimeter Wave Radar consumption by region & country, CAGR, 2021-2032 &

(K Units)

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

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

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

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

This report profiles key players in the global Millimeter Wave 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 Bosch, Continental, Denso, Hella, Veoneer, Valeo, Aptiv, ZF, WHST, Hitachi Astemo, 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 Millimeter Wave Radar 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 Millimeter Wave Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Millimeter Wave Radar Market, Segmentation by Type:

24GHz

77GHz

Others

Global Millimeter Wave Radar Market, Segmentation by Detection Distance:

Long-Range Radar

Medium-Range Radar

Short-Range Radar

Global Millimeter Wave Radar Market, Segmentation by Application:

Adaptive Cruise Control System

Blind Spot Monitoring

Other

Companies Profiled:

Bosch

Continental

Denso

Hella

Veoneer

Valeo

Aptiv

ZF

WHST

Hitachi Astemo

Nidec Elesys

Chengtai Technology

Chuhang Technology

Hasco

Desay SV

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Millimeter Wave Radar Introduction
- 1.2 World Millimeter Wave Radar Supply & Forecast
 - 1.2.1 World Millimeter Wave Radar Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Millimeter Wave Radar Production (2021-2032)
 - 1.2.3 World Millimeter Wave Radar Pricing Trends (2021-2032)
- 1.3 World Millimeter Wave Radar Production by Region (Based on Production Site)
 - 1.3.1 World Millimeter Wave Radar Production Value by Region (2021-2032)
 - 1.3.2 World Millimeter Wave Radar Production by Region (2021-2032)
 - 1.3.3 World Millimeter Wave Radar Average Price by Region (2021-2032)
 - 1.3.4 North America Millimeter Wave Radar Production (2021-2032)
 - 1.3.5 Europe Millimeter Wave Radar Production (2021-2032)
 - 1.3.6 China Millimeter Wave Radar Production (2021-2032)
 - 1.3.7 Japan Millimeter Wave Radar Production (2021-2032)
 - 1.3.8 South Korea Millimeter Wave Radar Production (2021-2032)
 - 1.3.9 India Millimeter Wave Radar Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Millimeter Wave Radar Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Millimeter Wave Radar Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Millimeter Wave Radar Demand (2021-2032)
- 2.2 World Millimeter Wave Radar Consumption by Region
 - 2.2.1 World Millimeter Wave Radar Consumption by Region (2021-2026)
 - 2.2.2 World Millimeter Wave Radar Consumption Forecast by Region (2027-2032)
- 2.3 United States Millimeter Wave Radar Consumption (2021-2032)
- 2.4 China Millimeter Wave Radar Consumption (2021-2032)
- 2.5 Europe Millimeter Wave Radar Consumption (2021-2032)
- 2.6 Japan Millimeter Wave Radar Consumption (2021-2032)
- 2.7 South Korea Millimeter Wave Radar Consumption (2021-2032)
- 2.8 ASEAN Millimeter Wave Radar Consumption (2021-2032)
- 2.9 India Millimeter Wave Radar Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Millimeter Wave Radar Production Value by Manufacturer (2021-2026)
- 3.2 World Millimeter Wave Radar Production by Manufacturer (2021-2026)
- 3.3 World Millimeter Wave Radar Average Price by Manufacturer (2021-2026)
- 3.4 Millimeter Wave Radar Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Millimeter Wave Radar Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Millimeter Wave Radar in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Millimeter Wave Radar in 2025
- 3.6 Millimeter Wave Radar Market: Overall Company Footprint Analysis
 - 3.6.1 Millimeter Wave Radar Market: Region Footprint
 - 3.6.2 Millimeter Wave Radar Market: Company Product Type Footprint
 - 3.6.3 Millimeter Wave Radar Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Millimeter Wave Radar Production Value Comparison
 - 4.1.1 United States VS China: Millimeter Wave Radar Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Millimeter Wave Radar Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Millimeter Wave Radar Production Comparison
 - 4.2.1 United States VS China: Millimeter Wave Radar Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Millimeter Wave Radar Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Millimeter Wave Radar Consumption Comparison
 - 4.3.1 United States VS China: Millimeter Wave Radar Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Millimeter Wave Radar Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Millimeter Wave Radar Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Millimeter Wave Radar Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Millimeter Wave Radar Production Value (2021-2026)

4.4.3 United States Based Manufacturers Millimeter Wave Radar Production (2021-2026)

4.5 China Based Millimeter Wave Radar Manufacturers and Market Share

4.5.1 China Based Millimeter Wave Radar Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Millimeter Wave Radar Production Value (2021-2026)

4.5.3 China Based Manufacturers Millimeter Wave Radar Production (2021-2026)

4.6 Rest of World Based Millimeter Wave Radar Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Millimeter Wave Radar Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Millimeter Wave Radar Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Millimeter Wave Radar Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Millimeter Wave Radar Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 24GHz

5.2.2 77GHz

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Millimeter Wave Radar Production by Type (2021-2032)

5.3.2 World Millimeter Wave Radar Production Value by Type (2021-2032)

5.3.3 World Millimeter Wave Radar Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DETECTION DISTANCE

6.1 World Millimeter Wave Radar Market Size Overview by Detection Distance: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Detection Distance

- 6.2.1 Long-Range Radar
- 6.2.2 Medium-Range Radar
- 6.2.3 Short-Range Radar
- 6.3 Market Segment by Detection Distance
 - 6.3.1 World Millimeter Wave Radar Production by Detection Distance (2021-2032)
 - 6.3.2 World Millimeter Wave Radar Production Value by Detection Distance (2021-2032)
 - 6.3.3 World Millimeter Wave Radar Average Price by Detection Distance (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

- 7.1 World Millimeter Wave Radar Market Size Overview by Application: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Application
 - 7.2.1 Adaptive Cruise Control System
 - 7.2.2 Blind Spot Monitoring
 - 7.2.3 Other
- 7.3 Market Segment by Application
 - 7.3.1 World Millimeter Wave Radar Production by Application (2021-2032)
 - 7.3.2 World Millimeter Wave Radar Production Value by Application (2021-2032)
 - 7.3.3 World Millimeter Wave Radar Average Price by Application (2021-2032)

8 COMPANY PROFILES

- 8.1 Bosch
 - 8.1.1 Bosch Details
 - 8.1.2 Bosch Major Business
 - 8.1.3 Bosch Millimeter Wave Radar Product and Services
 - 8.1.4 Bosch Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.1.5 Bosch Recent Developments/Updates
 - 8.1.6 Bosch Competitive Strengths & Weaknesses
- 8.2 Continental
 - 8.2.1 Continental Details
 - 8.2.2 Continental Major Business
 - 8.2.3 Continental Millimeter Wave Radar Product and Services
 - 8.2.4 Continental Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.2.5 Continental Recent Developments/Updates

8.2.6 Continental Competitive Strengths & Weaknesses

8.3 Denso

8.3.1 Denso Details

8.3.2 Denso Major Business

8.3.3 Denso Millimeter Wave Radar Product and Services

8.3.4 Denso Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Denso Recent Developments/Updates

8.3.6 Denso Competitive Strengths & Weaknesses

8.4 Hella

8.4.1 Hella Details

8.4.2 Hella Major Business

8.4.3 Hella Millimeter Wave Radar Product and Services

8.4.4 Hella Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Hella Recent Developments/Updates

8.4.6 Hella Competitive Strengths & Weaknesses

8.5 Veoneer

8.5.1 Veoneer Details

8.5.2 Veoneer Major Business

8.5.3 Veoneer Millimeter Wave Radar Product and Services

8.5.4 Veoneer Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Veoneer Recent Developments/Updates

8.5.6 Veoneer Competitive Strengths & Weaknesses

8.6 Valeo

8.6.1 Valeo Details

8.6.2 Valeo Major Business

8.6.3 Valeo Millimeter Wave Radar Product and Services

8.6.4 Valeo Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Valeo Recent Developments/Updates

8.6.6 Valeo Competitive Strengths & Weaknesses

8.7 Aptiv

8.7.1 Aptiv Details

8.7.2 Aptiv Major Business

8.7.3 Aptiv Millimeter Wave Radar Product and Services

8.7.4 Aptiv Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.7.5 Aptiv Recent Developments/Updates
- 8.7.6 Aptiv Competitive Strengths & Weaknesses
- 8.8 ZF
 - 8.8.1 ZF Details
 - 8.8.2 ZF Major Business
 - 8.8.3 ZF Millimeter Wave Radar Product and Services
 - 8.8.4 ZF Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 ZF Recent Developments/Updates
 - 8.8.6 ZF Competitive Strengths & Weaknesses
- 8.9 WHST
 - 8.9.1 WHST Details
 - 8.9.2 WHST Major Business
 - 8.9.3 WHST Millimeter Wave Radar Product and Services
 - 8.9.4 WHST Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 WHST Recent Developments/Updates
 - 8.9.6 WHST Competitive Strengths & Weaknesses
- 8.10 Hitachi Astemo
 - 8.10.1 Hitachi Astemo Details
 - 8.10.2 Hitachi Astemo Major Business
 - 8.10.3 Hitachi Astemo Millimeter Wave Radar Product and Services
 - 8.10.4 Hitachi Astemo Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Hitachi Astemo Recent Developments/Updates
 - 8.10.6 Hitachi Astemo Competitive Strengths & Weaknesses
- 8.11 Nidec Elesys
 - 8.11.1 Nidec Elesys Details
 - 8.11.2 Nidec Elesys Major Business
 - 8.11.3 Nidec Elesys Millimeter Wave Radar Product and Services
 - 8.11.4 Nidec Elesys Millimeter Wave Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Nidec Elesys Recent Developments/Updates
 - 8.11.6 Nidec Elesys Competitive Strengths & Weaknesses
- 8.12 Chengtai Technology
 - 8.12.1 Chengtai Technology Details
 - 8.12.2 Chengtai Technology Major Business
 - 8.12.3 Chengtai Technology Millimeter Wave Radar Product and Services
 - 8.12.4 Chengtai Technology Millimeter Wave Radar Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.12.5 Chengtai Technology Recent Developments/Updates

8.12.6 Chengtai Technology Competitive Strengths & Weaknesses

8.13 Chuhang Technology

8.13.1 Chuhang Technology Details

8.13.2 Chuhang Technology Major Business

8.13.3 Chuhang Technology Millimeter Wave Radar Product and Services

8.13.4 Chuhang Technology Millimeter Wave Radar Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.13.5 Chuhang Technology Recent Developments/Updates

8.13.6 Chuhang Technology Competitive Strengths & Weaknesses

8.14 Hasco

8.14.1 Hasco Details

8.14.2 Hasco Major Business

8.14.3 Hasco Millimeter Wave Radar Product and Services

8.14.4 Hasco Millimeter Wave Radar Production, Price, Value, Gross Margin and

Market Share (2021-2026)

8.14.5 Hasco Recent Developments/Updates

8.14.6 Hasco Competitive Strengths & Weaknesses

8.15 Desay SV

8.15.1 Desay SV Details

8.15.2 Desay SV Major Business

8.15.3 Desay SV Millimeter Wave Radar Product and Services

8.15.4 Desay SV Millimeter Wave Radar Production, Price, Value, Gross Margin and

Market Share (2021-2026)

8.15.5 Desay SV Recent Developments/Updates

8.15.6 Desay SV Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Millimeter Wave Radar Industry Chain

9.2 Millimeter Wave Radar Upstream Analysis

9.2.1 Millimeter Wave Radar Core Raw Materials

9.2.2 Main Manufacturers of Millimeter Wave Radar Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Millimeter Wave Radar Production Mode

9.6 Millimeter Wave Radar Procurement Model

9.7 Millimeter Wave Radar Industry Sales Model and Sales Channels

9.7.1 Millimeter Wave Radar Sales Model

9.7.2 Millimeter Wave Radar Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Millimeter Wave Radar Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Millimeter Wave Radar Production Value by Region (2021-2026) & (USD Million)

Table 3. World Millimeter Wave Radar Production Value by Region (2027-2032) & (USD Million)

Table 4. World Millimeter Wave Radar Production Value Market Share by Region (2021-2026)

Table 5. World Millimeter Wave Radar Production Value Market Share by Region (2027-2032)

Table 6. World Millimeter Wave Radar Production by Region (2021-2026) & (K Units)

Table 7. World Millimeter Wave Radar Production by Region (2027-2032) & (K Units)

Table 8. World Millimeter Wave Radar Production Market Share by Region (2021-2026)

Table 9. World Millimeter Wave Radar Production Market Share by Region (2027-2032)

Table 10. World Millimeter Wave Radar Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Millimeter Wave Radar Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Millimeter Wave Radar Major Market Trends

Table 13. World Millimeter Wave Radar Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Millimeter Wave Radar Consumption by Region (2021-2026) & (K Units)

Table 15. World Millimeter Wave Radar Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Millimeter Wave Radar Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Millimeter Wave Radar Producers in 2025

Table 18. World Millimeter Wave Radar Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Millimeter Wave Radar Producers in 2025

Table 20. World Millimeter Wave Radar Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Millimeter Wave Radar Company Evaluation Quadrant

Table 22. World Millimeter Wave Radar Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Millimeter Wave Radar Production Site of Key Manufacturer

Table 24. Millimeter Wave Radar Market: Company Product Type Footprint

Table 25. Millimeter Wave Radar Market: Company Product Application Footprint

Table 26. Millimeter Wave Radar Competitive Factors

Table 27. Millimeter Wave Radar New Entrant and Capacity Expansion Plans

Table 28. Millimeter Wave Radar Mergers & Acquisitions Activity

Table 29. United States VS China Millimeter Wave Radar Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Millimeter Wave Radar Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Millimeter Wave Radar Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Millimeter Wave Radar Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Millimeter Wave Radar Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Millimeter Wave Radar Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Millimeter Wave Radar Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Millimeter Wave Radar Production Market Share (2021-2026)

Table 37. China Based Millimeter Wave Radar Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Millimeter Wave Radar Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Millimeter Wave Radar Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Millimeter Wave Radar Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Millimeter Wave Radar Production Market Share (2021-2026)

Table 42. Rest of World Based Millimeter Wave Radar Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Millimeter Wave Radar Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Millimeter Wave Radar Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Millimeter Wave Radar Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Millimeter Wave Radar Production Market Share (2021-2026)

Table 47. World Millimeter Wave Radar Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Millimeter Wave Radar Production by Type (2021-2026) & (K Units)

Table 49. World Millimeter Wave Radar Production by Type (2027-2032) & (K Units)

Table 50. World Millimeter Wave Radar Production Value by Type (2021-2026) & (USD Million)

Table 51. World Millimeter Wave Radar Production Value by Type (2027-2032) & (USD Million)

Table 52. World Millimeter Wave Radar Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Millimeter Wave Radar Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Millimeter Wave Radar Production Value by Detection Distance, (USD Million), 2021 & 2025 & 2032

Table 55. World Millimeter Wave Radar Production by Detection Distance (2021-2026) & (K Units)

Table 56. World Millimeter Wave Radar Production by Detection Distance (2027-2032) & (K Units)

Table 57. World Millimeter Wave Radar Production Value by Detection Distance (2021-2026) & (USD Million)

Table 58. World Millimeter Wave Radar Production Value by Detection Distance (2027-2032) & (USD Million)

Table 59. World Millimeter Wave Radar Average Price by Detection Distance (2021-2026) & (US\$/Unit)

Table 60. World Millimeter Wave Radar Average Price by Detection Distance (2027-2032) & (US\$/Unit)

Table 61. World Millimeter Wave Radar Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Millimeter Wave Radar Production by Application (2021-2026) & (K Units)

Table 63. World Millimeter Wave Radar Production by Application (2027-2032) & (K Units)

Table 64. World Millimeter Wave Radar Production Value by Application (2021-2026) & (USD Million)

Table 65. World Millimeter Wave Radar Production Value by Application (2027-2032) & (USD Million)

Table 66. World Millimeter Wave Radar Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Millimeter Wave Radar Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Bosch Basic Information, Manufacturing Base and Competitors

Table 69. Bosch Major Business

Table 70. Bosch Millimeter Wave Radar Product and Services

Table 71. Bosch Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Bosch Recent Developments/Updates

Table 73. Bosch Competitive Strengths & Weaknesses

Table 74. Continental Basic Information, Manufacturing Base and Competitors

Table 75. Continental Major Business

Table 76. Continental Millimeter Wave Radar Product and Services

Table 77. Continental Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Continental Recent Developments/Updates

Table 79. Continental Competitive Strengths & Weaknesses

Table 80. Denso Basic Information, Manufacturing Base and Competitors

Table 81. Denso Major Business

Table 82. Denso Millimeter Wave Radar Product and Services

Table 83. Denso Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Denso Recent Developments/Updates

Table 85. Denso Competitive Strengths & Weaknesses

Table 86. Hella Basic Information, Manufacturing Base and Competitors

Table 87. Hella Major Business

Table 88. Hella Millimeter Wave Radar Product and Services

Table 89. Hella Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Hella Recent Developments/Updates

Table 91. Hella Competitive Strengths & Weaknesses

Table 92. Veoneer Basic Information, Manufacturing Base and Competitors

Table 93. Veoneer Major Business

Table 94. Veoneer Millimeter Wave Radar Product and Services

Table 95. Veoneer Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 96. Veoneer Recent Developments/Updates
- Table 97. Veoneer Competitive Strengths & Weaknesses
- Table 98. Valeo Basic Information, Manufacturing Base and Competitors
- Table 99. Valeo Major Business
- Table 100. Valeo Millimeter Wave Radar Product and Services
- Table 101. Valeo Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Valeo Recent Developments/Updates
- Table 103. Valeo Competitive Strengths & Weaknesses
- Table 104. Aptiv Basic Information, Manufacturing Base and Competitors
- Table 105. Aptiv Major Business
- Table 106. Aptiv Millimeter Wave Radar Product and Services
- Table 107. Aptiv Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Aptiv Recent Developments/Updates
- Table 109. Aptiv Competitive Strengths & Weaknesses
- Table 110. ZF Basic Information, Manufacturing Base and Competitors
- Table 111. ZF Major Business
- Table 112. ZF Millimeter Wave Radar Product and Services
- Table 113. ZF Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. ZF Recent Developments/Updates
- Table 115. ZF Competitive Strengths & Weaknesses
- Table 116. WHST Basic Information, Manufacturing Base and Competitors
- Table 117. WHST Major Business
- Table 118. WHST Millimeter Wave Radar Product and Services
- Table 119. WHST Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 120. WHST Recent Developments/Updates
- Table 121. WHST Competitive Strengths & Weaknesses
- Table 122. Hitachi Astemo Basic Information, Manufacturing Base and Competitors
- Table 123. Hitachi Astemo Major Business
- Table 124. Hitachi Astemo Millimeter Wave Radar Product and Services
- Table 125. Hitachi Astemo Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 126. Hitachi Astemo Recent Developments/Updates
- Table 127. Hitachi Astemo Competitive Strengths & Weaknesses
- Table 128. Nidec Elesys Basic Information, Manufacturing Base and Competitors

Table 129. Nidec Elesys Major Business

Table 130. Nidec Elesys Millimeter Wave Radar Product and Services

Table 131. Nidec Elesys Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Nidec Elesys Recent Developments/Updates

Table 133. Nidec Elesys Competitive Strengths & Weaknesses

Table 134. Chengtai Technology Basic Information, Manufacturing Base and Competitors

Table 135. Chengtai Technology Major Business

Table 136. Chengtai Technology Millimeter Wave Radar Product and Services

Table 137. Chengtai Technology Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Chengtai Technology Recent Developments/Updates

Table 139. Chengtai Technology Competitive Strengths & Weaknesses

Table 140. Chuhang Technology Basic Information, Manufacturing Base and Competitors

Table 141. Chuhang Technology Major Business

Table 142. Chuhang Technology Millimeter Wave Radar Product and Services

Table 143. Chuhang Technology Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Chuhang Technology Recent Developments/Updates

Table 145. Chuhang Technology Competitive Strengths & Weaknesses

Table 146. Hasco Basic Information, Manufacturing Base and Competitors

Table 147. Hasco Major Business

Table 148. Hasco Millimeter Wave Radar Product and Services

Table 149. Hasco Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Hasco Recent Developments/Updates

Table 151. Hasco Competitive Strengths & Weaknesses

Table 152. Desay SV Basic Information, Manufacturing Base and Competitors

Table 153. Desay SV Major Business

Table 154. Desay SV Millimeter Wave Radar Product and Services

Table 155. Desay SV Millimeter Wave Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Desay SV Recent Developments/Updates

Table 157. Desay SV Competitive Strengths & Weaknesses

Table 158. Global Key Players of Millimeter Wave Radar Upstream (Raw Materials)

Table 159. Global Millimeter Wave Radar Typical Customers

Table 160. Millimeter Wave Radar Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Millimeter Wave Radar Picture

Figure 2. World Millimeter Wave Radar Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Millimeter Wave Radar Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Millimeter Wave Radar Production (2021-2032) & (K Units)

Figure 5. World Millimeter Wave Radar Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Millimeter Wave Radar Production Value Market Share by Region (2021-2032)

Figure 7. World Millimeter Wave Radar Production Market Share by Region (2021-2032)

Figure 8. North America Millimeter Wave Radar Production (2021-2032) & (K Units)

Figure 9. Europe Millimeter Wave Radar Production (2021-2032) & (K Units)

Figure 10. China Millimeter Wave Radar Production (2021-2032) & (K Units)

Figure 11. Japan Millimeter Wave Radar Production (2021-2032) & (K Units)

Figure 12. South Korea Millimeter Wave Radar Production (2021-2032) & (K Units)

Figure 13. India Millimeter Wave Radar Production (2021-2032) & (K Units)

Figure 14. Millimeter Wave Radar Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Millimeter Wave Radar Consumption (2021-2032) & (K Units)

Figure 17. World Millimeter Wave Radar Consumption Market Share by Region (2021-2032)

Figure 18. United States Millimeter Wave Radar Consumption (2021-2032) & (K Units)

Figure 19. China Millimeter Wave Radar Consumption (2021-2032) & (K Units)

Figure 20. Europe Millimeter Wave Radar Consumption (2021-2032) & (K Units)

Figure 21. Japan Millimeter Wave Radar Consumption (2021-2032) & (K Units)

Figure 22. South Korea Millimeter Wave Radar Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Millimeter Wave Radar Consumption (2021-2032) & (K Units)

Figure 24. India Millimeter Wave Radar Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Millimeter Wave Radar by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Millimeter Wave Radar Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Millimeter Wave Radar Markets in 2025

Figure 28. United States VS China: Millimeter Wave Radar Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Millimeter Wave Radar Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Millimeter Wave Radar Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Millimeter Wave Radar Production Market Share 2025

Figure 32. China Based Manufacturers Millimeter Wave Radar Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Millimeter Wave Radar Production Market Share 2025

Figure 34. World Millimeter Wave Radar Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Millimeter Wave Radar Production Value Market Share by Type in 2025

Figure 36. 24GHz

Figure 37. 77GHz

Figure 38. Others

Figure 39. World Millimeter Wave Radar Production Market Share by Type (2021-2032)

Figure 40. World Millimeter Wave Radar Production Value Market Share by Type (2021-2032)

Figure 41. World Millimeter Wave Radar Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Millimeter Wave Radar Production Value by Detection Distance, (USD Million), 2021 & 2025 & 2032

Figure 43. World Millimeter Wave Radar Production Value Market Share by Detection Distance in 2025

Figure 44. Long-Range Radar

Figure 45. Medium-Range Radar

Figure 46. Short-Range Radar

Figure 47. World Millimeter Wave Radar Production Market Share by Detection Distance (2021-2032)

Figure 48. World Millimeter Wave Radar Production Value Market Share by Detection Distance (2021-2032)

Figure 49. World Millimeter Wave Radar Average Price by Detection Distance (2021-2032) & (US\$/Unit)

Figure 50. World Millimeter Wave Radar Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Millimeter Wave Radar Production Value Market Share by Application in 2025

Figure 52. Adaptive Cruise Control System

Figure 53. Blind Spot Monitoring

Figure 54. Other

Figure 55. World Millimeter Wave Radar Production Market Share by Application (2021-2032)

Figure 56. World Millimeter Wave Radar Production Value Market Share by Application (2021-2032)

Figure 57. World Millimeter Wave Radar Average Price by Application (2021-2032) & (US\$/Unit)

Figure 58. Millimeter Wave Radar Industry Chain

Figure 59. Millimeter Wave Radar Procurement Model

Figure 60. Millimeter Wave Radar Sales Model

Figure 61. Millimeter Wave Radar Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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