

Global Side-Looking Airborne Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Side-Looking Airborne Radar market size is expected to reach \$ 895 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Side-looking airborne radar is an airborne surveillance radar system designed to scan and image ground or maritime targets by transmitting radar signals perpendicular to the aircraft flight path. It is widely used for maritime patrol, border surveillance, environmental monitoring, disaster response, and intelligence, surveillance, and reconnaissance missions. In 2025, the average global selling price of side-looking airborne radar systems is approximately US\$2.8 million per unit, with global shipments reaching around 210 systems. The industry generally maintains a gross margin range of 35%-55%, supported by high system integration complexity, defense-grade certification requirements, long procurement cycles, and strong customer lock-in. The supply chain includes upstream radar components and signal processing electronics, midstream system integration, software and mission system development, and downstream demand from military forces, coast guards, government agencies, and specialized aviation operators.

In 2025, the side-looking airborne radar market continues to grow steadily as governments increase investment in maritime domain awareness, border security, and airborne surveillance capabilities. While high-resolution SAR systems attract attention for advanced imaging missions, side-looking airborne radar remains highly relevant due to its wide-area coverage, real-time monitoring capability, and lower system complexity for patrol and reconnaissance missions. Market competition is primarily driven by detection performance, system reliability, platform adaptability, and software integration rather than sheer resolution metrics.

This report studies the global Side-Looking Airborne Radar production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Side-Looking Airborne Radar total production and demand, 2021-2032, (Units)

Global Side-Looking Airborne Radar total production value, 2021-2032, (USD Million)

Global Side-Looking Airborne Radar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Side-Looking Airborne Radar consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Side-Looking Airborne Radar domestic production, consumption, key domestic manufacturers and share

Global Side-Looking Airborne Radar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Side-Looking Airborne Radar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Side-Looking Airborne Radar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Side-Looking Airborne 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 Raytheon Technologies Corporation, Lockheed Martin Corporation, Thales Group, Northrop Grumman Corporation, Airbus Defence and Space, Israel Aerospace Industries, Saab AB, BAE Systems plc, Leonardo S.p.A., OPTIMARE Systems GmbH, 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 Side-Looking Airborne Radar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Side-Looking Airborne Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Side-Looking Airborne Radar Market, Segmentation by Type:

True Aperture SLAR

Synthetic Aperture Radar (SAR)

Global Side-Looking Airborne Radar Market, Segmentation by Radar Band:

X-Band

C-Band

L-Band

Global Side-Looking Airborne Radar Market, Segmentation by Task Type:

Maritime Patrol

Border Surveillance

ISR Missions

Environmental Monitoring

Disaster Response

Global Side-Looking Airborne Radar Market, Segmentation by Application:

Military Forces

Coast Guards

Government Agencies

Specialized Aviation Operators

Companies Profiled:

Raytheon Technologies Corporation

Lockheed Martin Corporation

Thales Group

Northrop Grumman Corporation

Airbus Defence and Space

Israel Aerospace Industries

Saab AB

BAE Systems plc

Leonardo S.p.A.

OPTIMARE Systems GmbH

General Atomics Aeronautical Systems, Inc.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Side-Looking Airborne Radar Production Value by Manufacturer (2021-2026)
- 3.2 World Side-Looking Airborne Radar Production by Manufacturer (2021-2026)
- 3.3 World Side-Looking Airborne Radar Average Price by Manufacturer (2021-2026)
- 3.4 Side-Looking Airborne Radar Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Side-Looking Airborne Radar Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Side-Looking Airborne Radar in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Side-Looking Airborne Radar in 2025
- 3.6 Side-Looking Airborne Radar Market: Overall Company Footprint Analysis
 - 3.6.1 Side-Looking Airborne Radar Market: Region Footprint
 - 3.6.2 Side-Looking Airborne Radar Market: Company Product Type Footprint
 - 3.6.3 Side-Looking Airborne 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: Side-Looking Airborne Radar Production Value Comparison
 - 4.1.1 United States VS China: Side-Looking Airborne Radar Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Side-Looking Airborne Radar Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Side-Looking Airborne Radar Production Comparison
 - 4.2.1 United States VS China: Side-Looking Airborne Radar Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Side-Looking Airborne Radar Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Side-Looking Airborne Radar Consumption Comparison
 - 4.3.1 United States VS China: Side-Looking Airborne Radar Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Side-Looking Airborne Radar Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Side-Looking Airborne Radar Manufacturers and Market

Share, 2021-2026

4.4.1 United States Based Side-Looking Airborne Radar Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Side-Looking Airborne Radar Production Value (2021-2026)

4.4.3 United States Based Manufacturers Side-Looking Airborne Radar Production (2021-2026)

4.5 China Based Side-Looking Airborne Radar Manufacturers and Market Share

4.5.1 China Based Side-Looking Airborne Radar Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Side-Looking Airborne Radar Production Value (2021-2026)

4.5.3 China Based Manufacturers Side-Looking Airborne Radar Production (2021-2026)

4.6 Rest of World Based Side-Looking Airborne Radar Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Side-Looking Airborne Radar Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Side-Looking Airborne Radar Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Side-Looking Airborne Radar Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Side-Looking Airborne Radar Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 True Aperture SLAR

5.2.2 Synthetic Aperture Radar (SAR)

5.3 Market Segment by Type

5.3.1 World Side-Looking Airborne Radar Production by Type (2021-2032)

5.3.2 World Side-Looking Airborne Radar Production Value by Type (2021-2032)

5.3.3 World Side-Looking Airborne Radar Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY RADAR BAND

6.1 World Side-Looking Airborne Radar Market Size Overview by Radar Band: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Radar Band

6.2.1 X-Band

6.2.2 C-Band

6.2.3 L-Band

6.3 Market Segment by Radar Band

6.3.1 World Side-Looking Airborne Radar Production by Radar Band (2021-2032)

6.3.2 World Side-Looking Airborne Radar Production Value by Radar Band (2021-2032)

6.3.3 World Side-Looking Airborne Radar Average Price by Radar Band (2021-2032)

7 MARKET ANALYSIS BY TASK TYPE

7.1 World Side-Looking Airborne Radar Market Size Overview by Task Type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Task Type

7.2.1 Maritime Patrol

7.2.2 Border Surveillance

7.2.3 ISR Missions

7.2.4 Environmental Monitoring

7.2.5 Disaster Response

7.3 Market Segment by Task Type

7.3.1 World Side-Looking Airborne Radar Production by Task Type (2021-2032)

7.3.2 World Side-Looking Airborne Radar Production Value by Task Type (2021-2032)

7.3.3 World Side-Looking Airborne Radar Average Price by Task Type (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Side-Looking Airborne Radar Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Military Forces

8.2.2 Coast Guards

8.2.3 Government Agencies

8.2.4 Specialized Aviation Operators

8.3 Market Segment by Application

8.3.1 World Side-Looking Airborne Radar Production by Application (2021-2032)

8.3.2 World Side-Looking Airborne Radar Production Value by Application (2021-2032)

8.3.3 World Side-Looking Airborne Radar Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Raytheon Technologies Corporation

9.1.1 Raytheon Technologies Corporation Details

9.1.2 Raytheon Technologies Corporation Major Business

9.1.3 Raytheon Technologies Corporation Side-Looking Airborne Radar Product and Services

9.1.4 Raytheon Technologies Corporation Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Raytheon Technologies Corporation Recent Developments/Updates

9.1.6 Raytheon Technologies Corporation Competitive Strengths & Weaknesses

9.2 Lockheed Martin Corporation

9.2.1 Lockheed Martin Corporation Details

9.2.2 Lockheed Martin Corporation Major Business

9.2.3 Lockheed Martin Corporation Side-Looking Airborne Radar Product and Services

9.2.4 Lockheed Martin Corporation Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Lockheed Martin Corporation Recent Developments/Updates

9.2.6 Lockheed Martin Corporation Competitive Strengths & Weaknesses

9.3 Thales Group

9.3.1 Thales Group Details

9.3.2 Thales Group Major Business

9.3.3 Thales Group Side-Looking Airborne Radar Product and Services

9.3.4 Thales Group Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Thales Group Recent Developments/Updates

9.3.6 Thales Group Competitive Strengths & Weaknesses

9.4 Northrop Grumman Corporation

9.4.1 Northrop Grumman Corporation Details

9.4.2 Northrop Grumman Corporation Major Business

9.4.3 Northrop Grumman Corporation Side-Looking Airborne Radar Product and Services

9.4.4 Northrop Grumman Corporation Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Northrop Grumman Corporation Recent Developments/Updates

9.4.6 Northrop Grumman Corporation Competitive Strengths & Weaknesses

9.5 Airbus Defence and Space

9.5.1 Airbus Defence and Space Details

9.5.2 Airbus Defence and Space Major Business

- 9.5.3 Airbus Defence and Space Side-Looking Airborne Radar Product and Services
- 9.5.4 Airbus Defence and Space Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Airbus Defence and Space Recent Developments/Updates
- 9.5.6 Airbus Defence and Space Competitive Strengths & Weaknesses
- 9.6 Israel Aerospace Industries
 - 9.6.1 Israel Aerospace Industries Details
 - 9.6.2 Israel Aerospace Industries Major Business
 - 9.6.3 Israel Aerospace Industries Side-Looking Airborne Radar Product and Services
 - 9.6.4 Israel Aerospace Industries Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Israel Aerospace Industries Recent Developments/Updates
 - 9.6.6 Israel Aerospace Industries Competitive Strengths & Weaknesses
- 9.7 Saab AB
 - 9.7.1 Saab AB Details
 - 9.7.2 Saab AB Major Business
 - 9.7.3 Saab AB Side-Looking Airborne Radar Product and Services
 - 9.7.4 Saab AB Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Saab AB Recent Developments/Updates
 - 9.7.6 Saab AB Competitive Strengths & Weaknesses
- 9.8 BAE Systems plc
 - 9.8.1 BAE Systems plc Details
 - 9.8.2 BAE Systems plc Major Business
 - 9.8.3 BAE Systems plc Side-Looking Airborne Radar Product and Services
 - 9.8.4 BAE Systems plc Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 BAE Systems plc Recent Developments/Updates
 - 9.8.6 BAE Systems plc Competitive Strengths & Weaknesses
- 9.9 Leonardo S.p.A.
 - 9.9.1 Leonardo S.p.A. Details
 - 9.9.2 Leonardo S.p.A. Major Business
 - 9.9.3 Leonardo S.p.A. Side-Looking Airborne Radar Product and Services
 - 9.9.4 Leonardo S.p.A. Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Leonardo S.p.A. Recent Developments/Updates
 - 9.9.6 Leonardo S.p.A. Competitive Strengths & Weaknesses
- 9.10 OPTIMARE Systems GmbH
 - 9.10.1 OPTIMARE Systems GmbH Details

- 9.10.2 OPTIMARE Systems GmbH Major Business
- 9.10.3 OPTIMARE Systems GmbH Side-Looking Airborne Radar Product and Services
- 9.10.4 OPTIMARE Systems GmbH Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 OPTIMARE Systems GmbH Recent Developments/Updates
- 9.10.6 OPTIMARE Systems GmbH Competitive Strengths & Weaknesses
- 9.11 General Atomics Aeronautical Systems, Inc.
 - 9.11.1 General Atomics Aeronautical Systems, Inc. Details
 - 9.11.2 General Atomics Aeronautical Systems, Inc. Major Business
 - 9.11.3 General Atomics Aeronautical Systems, Inc. Side-Looking Airborne Radar Product and Services
 - 9.11.4 General Atomics Aeronautical Systems, Inc. Side-Looking Airborne Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 General Atomics Aeronautical Systems, Inc. Recent Developments/Updates
 - 9.11.6 General Atomics Aeronautical Systems, Inc. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Side-Looking Airborne Radar Industry Chain
- 10.2 Side-Looking Airborne Radar Upstream Analysis
 - 10.2.1 Side-Looking Airborne Radar Core Raw Materials
 - 10.2.2 Main Manufacturers of Side-Looking Airborne Radar Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Side-Looking Airborne Radar Production Mode
- 10.6 Side-Looking Airborne Radar Procurement Model
- 10.7 Side-Looking Airborne Radar Industry Sales Model and Sales Channels
 - 10.7.1 Side-Looking Airborne Radar Sales Model
 - 10.7.2 Side-Looking Airborne Radar Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Side-Looking Airborne Radar Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Side-Looking Airborne Radar Production Value by Region (2021-2026) & (USD Million)

Table 3. World Side-Looking Airborne Radar Production Value by Region (2027-2032) & (USD Million)

Table 4. World Side-Looking Airborne Radar Production Value Market Share by Region (2021-2026)

Table 5. World Side-Looking Airborne Radar Production Value Market Share by Region (2027-2032)

Table 6. World Side-Looking Airborne Radar Production by Region (2021-2026) & (Units)

Table 7. World Side-Looking Airborne Radar Production by Region (2027-2032) & (Units)

Table 8. World Side-Looking Airborne Radar Production Market Share by Region (2021-2026)

Table 9. World Side-Looking Airborne Radar Production Market Share by Region (2027-2032)

Table 10. World Side-Looking Airborne Radar Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Side-Looking Airborne Radar Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Side-Looking Airborne Radar Major Market Trends

Table 13. World Side-Looking Airborne Radar Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Side-Looking Airborne Radar Consumption by Region (2021-2026) & (Units)

Table 15. World Side-Looking Airborne Radar Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Side-Looking Airborne Radar Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Side-Looking Airborne Radar Producers in 2025

Table 18. World Side-Looking Airborne Radar Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Side-Looking Airborne Radar Producers in 2025

Table 20. World Side-Looking Airborne Radar Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Side-Looking Airborne Radar Company Evaluation Quadrant

Table 22. World Side-Looking Airborne Radar Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Side-Looking Airborne Radar Production Site of Key Manufacturer

Table 24. Side-Looking Airborne Radar Market: Company Product Type Footprint

Table 25. Side-Looking Airborne Radar Market: Company Product Application Footprint

Table 26. Side-Looking Airborne Radar Competitive Factors

Table 27. Side-Looking Airborne Radar New Entrant and Capacity Expansion Plans

Table 28. Side-Looking Airborne Radar Mergers & Acquisitions Activity

Table 29. United States VS China Side-Looking Airborne Radar Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Side-Looking Airborne Radar Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Side-Looking Airborne Radar Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Side-Looking Airborne Radar Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Side-Looking Airborne Radar Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Side-Looking Airborne Radar Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Side-Looking Airborne Radar Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Side-Looking Airborne Radar Production Market Share (2021-2026)

Table 37. China Based Side-Looking Airborne Radar Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Side-Looking Airborne Radar Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Side-Looking Airborne Radar Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Side-Looking Airborne Radar Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Side-Looking Airborne Radar Production Market

Share (2021-2026)

Table 42. Rest of World Based Side-Looking Airborne Radar Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Side-Looking Airborne Radar Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Side-Looking Airborne Radar Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Side-Looking Airborne Radar Production Market Share (2021-2026)

Table 47. World Side-Looking Airborne Radar Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Side-Looking Airborne Radar Production by Type (2021-2026) & (Units)

Table 49. World Side-Looking Airborne Radar Production by Type (2027-2032) & (Units)

Table 50. World Side-Looking Airborne Radar Production Value by Type (2021-2026) & (USD Million)

Table 51. World Side-Looking Airborne Radar Production Value by Type (2027-2032) & (USD Million)

Table 52. World Side-Looking Airborne Radar Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Side-Looking Airborne Radar Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Side-Looking Airborne Radar Production Value by Radar Band, (USD Million), 2021 & 2025 & 2032

Table 55. World Side-Looking Airborne Radar Production by Radar Band (2021-2026) & (Units)

Table 56. World Side-Looking Airborne Radar Production by Radar Band (2027-2032) & (Units)

Table 57. World Side-Looking Airborne Radar Production Value by Radar Band (2021-2026) & (USD Million)

Table 58. World Side-Looking Airborne Radar Production Value by Radar Band (2027-2032) & (USD Million)

Table 59. World Side-Looking Airborne Radar Average Price by Radar Band (2021-2026) & (K US\$/Unit)

Table 60. World Side-Looking Airborne Radar Average Price by Radar Band (2027-2032) & (K US\$/Unit)

Table 61. World Side-Looking Airborne Radar Production Value by Task Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Side-Looking Airborne Radar Production by Task Type (2021-2026) & (Units)

Table 63. World Side-Looking Airborne Radar Production by Task Type (2027-2032) & (Units)

Table 64. World Side-Looking Airborne Radar Production Value by Task Type (2021-2026) & (USD Million)

Table 65. World Side-Looking Airborne Radar Production Value by Task Type (2027-2032) & (USD Million)

Table 66. World Side-Looking Airborne Radar Average Price by Task Type (2021-2026) & (K US\$/Unit)

Table 67. World Side-Looking Airborne Radar Average Price by Task Type (2027-2032) & (K US\$/Unit)

Table 68. World Side-Looking Airborne Radar Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Side-Looking Airborne Radar Production by Application (2021-2026) & (Units)

Table 70. World Side-Looking Airborne Radar Production by Application (2027-2032) & (Units)

Table 71. World Side-Looking Airborne Radar Production Value by Application (2021-2026) & (USD Million)

Table 72. World Side-Looking Airborne Radar Production Value by Application (2027-2032) & (USD Million)

Table 73. World Side-Looking Airborne Radar Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Side-Looking Airborne Radar Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Raytheon Technologies Corporation Basic Information, Manufacturing Base and Competitors

Table 76. Raytheon Technologies Corporation Major Business

Table 77. Raytheon Technologies Corporation Side-Looking Airborne Radar Product and Services

Table 78. Raytheon Technologies Corporation Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Raytheon Technologies Corporation Recent Developments/Updates

Table 80. Raytheon Technologies Corporation Competitive Strengths & Weaknesses

Table 81. Lockheed Martin Corporation Basic Information, Manufacturing Base and

Competitors

Table 82. Lockheed Martin Corporation Major Business

Table 83. Lockheed Martin Corporation Side-Looking Airborne Radar Product and Services

Table 84. Lockheed Martin Corporation Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Lockheed Martin Corporation Recent Developments/Updates

Table 86. Lockheed Martin Corporation Competitive Strengths & Weaknesses

Table 87. Thales Group Basic Information, Manufacturing Base and Competitors

Table 88. Thales Group Major Business

Table 89. Thales Group Side-Looking Airborne Radar Product and Services

Table 90. Thales Group Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Thales Group Recent Developments/Updates

Table 92. Thales Group Competitive Strengths & Weaknesses

Table 93. Northrop Grumman Corporation Basic Information, Manufacturing Base and Competitors

Table 94. Northrop Grumman Corporation Major Business

Table 95. Northrop Grumman Corporation Side-Looking Airborne Radar Product and Services

Table 96. Northrop Grumman Corporation Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Northrop Grumman Corporation Recent Developments/Updates

Table 98. Northrop Grumman Corporation Competitive Strengths & Weaknesses

Table 99. Airbus Defence and Space Basic Information, Manufacturing Base and Competitors

Table 100. Airbus Defence and Space Major Business

Table 101. Airbus Defence and Space Side-Looking Airborne Radar Product and Services

Table 102. Airbus Defence and Space Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Airbus Defence and Space Recent Developments/Updates

Table 104. Airbus Defence and Space Competitive Strengths & Weaknesses

Table 105. Israel Aerospace Industries Basic Information, Manufacturing Base and Competitors

Table 106. Israel Aerospace Industries Major Business

Table 107. Israel Aerospace Industries Side-Looking Airborne Radar Product and Services

Table 108. Israel Aerospace Industries Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Israel Aerospace Industries Recent Developments/Updates

Table 110. Israel Aerospace Industries Competitive Strengths & Weaknesses

Table 111. Saab AB Basic Information, Manufacturing Base and Competitors

Table 112. Saab AB Major Business

Table 113. Saab AB Side-Looking Airborne Radar Product and Services

Table 114. Saab AB Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Saab AB Recent Developments/Updates

Table 116. Saab AB Competitive Strengths & Weaknesses

Table 117. BAE Systems plc Basic Information, Manufacturing Base and Competitors

Table 118. BAE Systems plc Major Business

Table 119. BAE Systems plc Side-Looking Airborne Radar Product and Services

Table 120. BAE Systems plc Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. BAE Systems plc Recent Developments/Updates

Table 122. BAE Systems plc Competitive Strengths & Weaknesses

Table 123. Leonardo S.p.A. Basic Information, Manufacturing Base and Competitors

Table 124. Leonardo S.p.A. Major Business

Table 125. Leonardo S.p.A. Side-Looking Airborne Radar Product and Services

Table 126. Leonardo S.p.A. Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Leonardo S.p.A. Recent Developments/Updates

Table 128. Leonardo S.p.A. Competitive Strengths & Weaknesses

Table 129. OPTIMARE Systems GmbH Basic Information, Manufacturing Base and Competitors

Table 130. OPTIMARE Systems GmbH Major Business

Table 131. OPTIMARE Systems GmbH Side-Looking Airborne Radar Product and Services

Table 132. OPTIMARE Systems GmbH Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 133. OPTIMARE Systems GmbH Recent Developments/Updates

Table 134. OPTIMARE Systems GmbH Competitive Strengths & Weaknesses

Table 135. General Atomics Aeronautical Systems, Inc. Basic Information, Manufacturing Base and Competitors

Table 136. General Atomics Aeronautical Systems, Inc. Major Business

Table 137. General Atomics Aeronautical Systems, Inc. Side-Looking Airborne Radar Product and Services

Table 138. General Atomics Aeronautical Systems, Inc. Side-Looking Airborne Radar Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. General Atomics Aeronautical Systems, Inc. Recent Developments/Updates

Table 140. General Atomics Aeronautical Systems, Inc. Competitive Strengths & Weaknesses

Table 141. Global Key Players of Side-Looking Airborne Radar Upstream (Raw Materials)

Table 142. Global Side-Looking Airborne Radar Typical Customers

Table 143. Side-Looking Airborne Radar Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Side-Looking Airborne Radar Picture

Figure 2. World Side-Looking Airborne Radar Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Side-Looking Airborne Radar Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Side-Looking Airborne Radar Production (2021-2032) & (Units)

Figure 5. World Side-Looking Airborne Radar Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Side-Looking Airborne Radar Production Value Market Share by Region (2021-2032)

Figure 7. World Side-Looking Airborne Radar Production Market Share by Region (2021-2032)

Figure 8. North America Side-Looking Airborne Radar Production (2021-2032) & (Units)

Figure 9. Europe Side-Looking Airborne Radar Production (2021-2032) & (Units)

Figure 10. China Side-Looking Airborne Radar Production (2021-2032) & (Units)

Figure 11. Japan Side-Looking Airborne Radar Production (2021-2032) & (Units)

Figure 12. Side-Looking Airborne Radar Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Side-Looking Airborne Radar Consumption (2021-2032) & (Units)

Figure 15. World Side-Looking Airborne Radar Consumption Market Share by Region (2021-2032)

Figure 16. United States Side-Looking Airborne Radar Consumption (2021-2032) & (Units)

Figure 17. China Side-Looking Airborne Radar Consumption (2021-2032) & (Units)

Figure 18. Europe Side-Looking Airborne Radar Consumption (2021-2032) & (Units)

Figure 19. Japan Side-Looking Airborne Radar Consumption (2021-2032) & (Units)

Figure 20. South Korea Side-Looking Airborne Radar Consumption (2021-2032) & (Units)

Figure 21. ASEAN Side-Looking Airborne Radar Consumption (2021-2032) & (Units)

Figure 22. India Side-Looking Airborne Radar Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Side-Looking Airborne Radar by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Side-Looking Airborne Radar Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Side-Looking Airborne

Radar Markets in 2025

Figure 26. United States VS China: Side-Looking Airborne Radar Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Side-Looking Airborne Radar Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Side-Looking Airborne Radar Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Side-Looking Airborne Radar Production Market Share 2025

Figure 30. China Based Manufacturers Side-Looking Airborne Radar Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Side-Looking Airborne Radar Production Market Share 2025

Figure 32. World Side-Looking Airborne Radar Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Side-Looking Airborne Radar Production Value Market Share by Type in 2025

Figure 34. True Aperture SLAR

Figure 35. Synthetic Aperture Radar (SAR)

Figure 36. World Side-Looking Airborne Radar Production Market Share by Type (2021-2032)

Figure 37. World Side-Looking Airborne Radar Production Value Market Share by Type (2021-2032)

Figure 38. World Side-Looking Airborne Radar Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World Side-Looking Airborne Radar Production Value by Radar Band, (USD Million), 2021 & 2025 & 2032

Figure 40. World Side-Looking Airborne Radar Production Value Market Share by Radar Band in 2025

Figure 41. X-Band

Figure 42. C-Band

Figure 43. L-Band

Figure 44. World Side-Looking Airborne Radar Production Market Share by Radar Band (2021-2032)

Figure 45. World Side-Looking Airborne Radar Production Value Market Share by Radar Band (2021-2032)

Figure 46. World Side-Looking Airborne Radar Average Price by Radar Band (2021-2032) & (K US\$/Unit)

Figure 47. World Side-Looking Airborne Radar Production Value by Task Type, (USD

Million), 2021 & 2025 & 2032

Figure 48. World Side-Looking Airborne Radar Production Value Market Share by Task Type in 2025

Figure 49. Maritime Patrol

Figure 50. Border Surveillance

Figure 51. ISR Missions

Figure 52. Environmental Monitoring

Figure 53. Disaster Response

Figure 54. World Side-Looking Airborne Radar Production Market Share by Task Type (2021-2032)

Figure 55. World Side-Looking Airborne Radar Production Value Market Share by Task Type (2021-2032)

Figure 56. World Side-Looking Airborne Radar Average Price by Task Type (2021-2032) & (K US\$/Unit)

Figure 57. World Side-Looking Airborne Radar Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Side-Looking Airborne Radar Production Value Market Share by Application in 2025

Figure 59. Military Forces

Figure 60. Coast Guards

Figure 61. Government Agencies

Figure 62. Specialized Aviation Operators

Figure 63. World Side-Looking Airborne Radar Production Market Share by Application (2021-2032)

Figure 64. World Side-Looking Airborne Radar Production Value Market Share by Application (2021-2032)

Figure 65. World Side-Looking Airborne Radar Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 66. Side-Looking Airborne Radar Industry Chain

Figure 67. Side-Looking Airborne Radar Procurement Model

Figure 68. Side-Looking Airborne Radar Sales Model

Figure 69. Side-Looking Airborne Radar Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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