

Global Airborne Radars Market Size Study, by Component (Antennas, Receivers, Processors, Transmitters, Graphical User Interfaces, Stabilization Systems, Others), by Mode (Air-to-Ground, Air-to-Air, Air-to-Sea), by Dimension (2D, 3D, 4D), by Range (Long Range, Medium Range, Short Range, Very Short Range), by Frequency Band (X-band, C-band, KU-band, S-band, HF/VHF/UHF, KA-band, Multi-band, L-band), by Installation Type (New Installation, Retrofit), by Technology (Active Electronically Scanned Array, Software-Defined Radar, Synthetic Aperture Radar, Digital Beamforming, Multistatic Radar Systems, Low Probability of Intercept), by Application (Defense and Military, Commercial and Business), and Regional Forecasts 2022-2032

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Abstracts

Global Airborne Radars Market is valued approximately at USD 10.54 billion in 2023 and is anticipated to grow with a robust CAGR of 9.6% over the forecast period 2024-2032. Airborne radars are integral systems mounted on aircraft to detect, track, and monitor various objects, terrain features, and weather conditions. Operating through the emission of radio waves and analysis of the reflected signals, these systems provide critical data on the position, speed, and distance of objects, which is essential for both military and civilian applications. In the defense sector, airborne radars are crucial for

surveillance, target acquisition, and navigation, ensuring that military operations are conducted with high precision and safety. Meanwhile, in commercial aviation, these radars enhance operational safety by monitoring weather conditions, detecting other aircraft, and aiding in navigation. The versatility of airborne radars extends to their use in search and rescue missions, disaster management, and environmental monitoring, where they provide real-time situational awareness and crucial information to ground operators.

The Airborne Radars Market is experiencing significant growth driven by several key factors. The first major driver is the increasing global defense expenditure, propelled by rising geopolitical tensions and the need for modernized military infrastructure. Airborne radar systems are essential for advanced surveillance and target detection, making them a top priority in defense budgets worldwide. Another key driver is the rapid technological advancements in radar systems, including innovations such as Active Electronically Scanned Array (AESA) radars, which offer enhanced detection capabilities, longer ranges, and improved accuracy. These technological strides are transforming airborne radar systems, making them more effective and versatile, thus driving market demand. Additionally, the expansion of Unmanned Aerial Vehicles (UAVs) in both military and civilian roles is further fueling the market. UAVs rely heavily on advanced radar systems for navigation and reconnaissance, leading to a surge in demand for compact and lightweight radar systems. The market presents significant opportunities as well, particularly in the growing civilian applications of airborne radars. These include air traffic control, weather monitoring, and environmental studies, where radar systems enhance safety and operational efficiency. Emerging markets in Asia-Pacific and the Middle East are also investing heavily in modernizing their defense systems, creating lucrative opportunities for airborne radar manufacturers to expand their presence in these regions. However, the market does face challenges, most notably the high development and maintenance costs associated with advanced radar systems. The need for continuous technological upgrades and the complexity of integrating these systems into existing defense infrastructures can be financially burdensome, potentially limiting market growth.

The North American region dominated the global airborne radars market in 2023, accounting for a significant revenue share. This dominance is expected to continue, driven by the region's high demand for intelligence, surveillance, and reconnaissance (ISR) capabilities, particularly for border and coastal surveillance. The Asia-Pacific region is projected to grow at the fastest CAGR during the forecast period, fueled by the ongoing modernization of military capabilities and the increasing focus on acquiring advanced technologies to maintain a strategic edge.

Major market players included in this report are:

Lockheed Martin Corporation

Thales

Leonardo S.p.A.

Hensoldt

Honeywell Aerospace

L3Harris Technologies, Inc.

Elbit Systems Ltd.

Israel Aerospace Industries

Indra

Telephonics Corporation

The detailed segments and sub-segment of the market are explained below:

By Component:

Antennas

Receivers

Processors

Transmitters

Graphical User Interfaces

Stabilization Systems

Others

By Mode:

Air-to-Ground

Air-to-Air

Air-to-Sea

By Dimension:

2D

3D

4D

By Range:

Long Range

Medium Range

Short Range

Very Short Range

By Frequency Band:

X-band

C-band

KU-band

S-band

HF/VHF/UHF

KA-band

Multi-band

L-band

By Installation Type:

New Installation

Retrofit

By Technology:

Active Electronically Scanned Array

Software-Defined Radar

Synthetic Aperture Radar

Digital Beamforming

Multistatic Radar Systems

Low Probability of Intercept

By Application:

Defense and Military

Commercial and Business

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL AIRBORNE RADARS MARKET EXECUTIVE SUMMARY

- 1.1. Global Airborne Radars Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Component
 - 1.3.2. By Mode
 - 1.3.3. By Dimension
 - 1.3.4. By Range
 - 1.3.5. By Frequency Band
 - 1.3.6. By Installation Type
 - 1.3.7. By Technology
 - 1.3.8. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL AIRBORNE RADARS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology

2.5. Years Considered for the Study

2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL AIRBORNE RADARS MARKET DYNAMICS

3.1. Market Drivers

3.1.1. Increasing Defense Expenditure

3.1.2. Technological Advancements in Radar Systems

3.1.3. Expansion of Unmanned Aerial Vehicles (UAVs)

3.2. Market Challenges

3.2.1. High Development and Maintenance Costs

3.2.2. Complex Integration with Existing Systems

3.3. Market Opportunities

3.3.1. Growing Demand for Civilian Applications

3.3.2. Rising Adoption in Emerging Markets

3.3.3. Technological Innovations in Radar Systems

CHAPTER 4. GLOBAL AIRBORNE RADARS MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.1.6. Futuristic Approach to Porter's 5 Force Model

4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

4.2.1. Political

4.2.2. Economical

4.2.3. Social

4.2.4. Technological

4.2.5. Environmental

4.2.6. Legal

4.3. Top Investment Opportunity

4.4. Top Winning Strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL AIRBORNE RADARS MARKET SIZE & FORECASTS BY COMPONENT 2022-2032

5.1. Segment Dashboard

5.2. Global Airborne Radars Market: Component Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Antennas

5.2.2. Receivers

5.2.3. Processors

5.2.4. Transmitters

5.2.5. Graphical User Interfaces

5.2.6. Stabilization Systems

5.2.7. Others

CHAPTER 6. GLOBAL AIRBORNE RADARS MARKET SIZE & FORECASTS BY MODE 2022-2032

6.1. Segment Dashboard

6.2. Global Airborne Radars Market: Mode Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Air-to-Ground

6.2.2. Air-to-Air

6.2.3. Air-to-Sea

CHAPTER 7. GLOBAL AIRBORNE RADARS MARKET SIZE & FORECASTS BY DIMENSION 2022-2032

7.1. Segment Dashboard

7.2. Global Airborne Radars Market: Dimension Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. 2D

7.2.2. 3D

7.2.3. 4D

CHAPTER 8. GLOBAL AIRBORNE RADARS MARKET SIZE & FORECASTS BY RANGE 2022-2032

8.1. Segment Dashboard

8.2. Global Airborne Radars Market: Range Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 8.2.1. Long Range
- 8.2.2. Medium Range
- 8.2.3. Short Range
- 8.2.4. Very Short Range

CHAPTER 9. GLOBAL AIRBORNE RADARS MARKET SIZE & FORECASTS BY FREQUENCY BAND 2022-2032

9.1. Segment Dashboard

9.2. Global Airborne Radars Market: Frequency Band Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 9.2.1. X-band
- 9.2.2. C-band
- 9.2.3. KU-band
- 9.2.4. S-band
- 9.2.5. HF/VHF/UHF
- 9.2.6. KA-band
- 9.2.7. Multi-band
- 9.2.8. L-band

CHAPTER 10. GLOBAL AIRBORNE RADARS MARKET SIZE & FORECASTS BY INSTALLATION TYPE 2022-2032

10.1. Segment Dashboard

10.2. Global Airborne Radars Market: Installation Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 10.2.1. New Installation
- 10.2.2. Retrofit

CHAPTER 11. GLOBAL AIRBORNE RADARS MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

11.1. Segment Dashboard

11.2. Global Airborne Radars Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 11.2.1. Active Electronically Scanned Array
- 11.2.2. Software-Defined Radar

- 11.2.3. Synthetic Aperture Radar
- 11.2.4. Digital Beamforming
- 11.2.5. Multistatic Radar Systems
- 11.2.6. Low Probability of Intercept

CHAPTER 12. GLOBAL AIRBORNE RADARS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

- 12.1. Segment Dashboard
- 12.2. Global Airborne Radars Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)
 - 12.2.1. Defense and Military
 - 12.2.2. Commercial and Business

CHAPTER 13. GLOBAL AIRBORNE RADARS MARKET SIZE & FORECASTS BY REGION 2022-2032

- 13.1. North America Airborne Radars Market
 - 13.1.1. U.S. Airborne Radars Market
 - 13.1.1.1. Component breakdown size & forecasts, 2022-2032
 - 13.1.1.2. Mode breakdown size & forecasts, 2022-2032
 - 13.1.1.3. Dimension breakdown size & forecasts, 2022-2032
 - 13.1.1.4. Range breakdown size & forecasts, 2022-2032
 - 13.1.1.5. Frequency Band breakdown size & forecasts, 2022-2032
 - 13.1.1.6. Installation Type breakdown size & forecasts, 2022-2032
 - 13.1.1.7. Technology breakdown size & forecasts, 2022-2032
 - 13.1.1.8. Application breakdown size & forecasts, 2022-2032
 - 13.1.2. Canada Airborne Radars Market
 - 13.1.2.1. Component breakdown size & forecasts, 2022-2032
 - 13.1.2.2. Mode breakdown size & forecasts, 2022-2032
 - 13.1.2.3. Dimension breakdown size & forecasts, 2022-2032
 - 13.1.2.4. Range breakdown size & forecasts, 2022-2032
 - 13.1.2.5. Frequency Band breakdown size & forecasts, 2022-2032
 - 13.1.2.6. Installation Type breakdown size & forecasts, 2022-2032
 - 13.1.2.7. Technology breakdown size & forecasts, 2022-2032
 - 13.1.2.8. Application breakdown size & forecasts, 2022-2032
- 13.2. Europe Airborne Radars Market
 - 13.2.1. U.K. Airborne Radars Market
 - 13.2.2. Germany Airborne Radars Market

- 13.2.3. France Airborne Radars Market
- 13.2.4. Spain Airborne Radars Market
- 13.2.5. Italy Airborne Radars Market
- 13.2.6. Rest of Europe Airborne Radars Market
- 13.3. Asia-Pacific Airborne Radars Market
 - 13.3.1. China Airborne Radars Market
 - 13.3.2. India Airborne Radars Market
 - 13.3.3. Japan Airborne Radars Market
 - 13.3.4. Australia Airborne Radars Market
 - 13.3.5. South Korea Airborne Radars Market
 - 13.3.6. Rest of Asia Pacific Airborne Radars Market
- 13.4. Latin America Airborne Radars Market
 - 13.4.1. Brazil Airborne Radars Market
 - 13.4.2. Mexico Airborne Radars Market
 - 13.4.3. Rest of Latin America Airborne Radars Market
- 13.5. Middle East & Africa Airborne Radars Market
 - 13.5.1. Saudi Arabia Airborne Radars Market
 - 13.5.2. South Africa Airborne Radars Market
 - 13.5.3. Rest of Middle East & Africa Airborne Radars Market

CHAPTER 14. COMPETITIVE INTELLIGENCE

- 14.1. Key Company SWOT Analysis
 - 14.1.1. Company
 - 14.1.2. Company
 - 14.1.3. Company
- 14.2. Top Market Strategies
- 14.3. Company Profiles
 - 14.3.1. Hensoldt
 - 14.3.1.1. Key Information
 - 14.3.1.2. Overview
 - 14.3.1.3. Financial (Subject to Data Availability)
 - 14.3.1.4. Product Summary
 - 14.3.1.5. Market Strategies
 - 14.3.2. Honeywell Aerospace
 - 14.3.3. L3Harris Technologies, Inc.
 - 14.3.4. Elbit Systems Ltd.
 - 14.3.5. Israel Aerospace Industries
 - 14.3.6. Indra

- 14.3.7. Telephonics Corporation
- 14.3.8. OPTIMARE Systems GmbH
- 14.3.9. Echodyne Corp.
- 14.3.10. Lockheed Martin Corporation

CHAPTER 15. RESEARCH PROCESS

- 15.1. Research Process
 - 15.1.1. Data Mining
 - 15.1.2. Analysis
 - 15.1.3. Market Estimation
 - 15.1.4. Validation
 - 15.1.5. Publishing
- 15.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Airborne Radars Market, report scope

TABLE 2. Global Airborne Radars Market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Airborne Radars Market estimates & forecasts by Component 2022-2032 (USD Billion)

TABLE 4. Global Airborne Radars Market estimates & forecasts by Mode 2022-2032 (USD Billion)

TABLE 5. Global Airborne Radars Market estimates & forecasts by Dimension 2022-2032 (USD Billion)

TABLE 6. Global Airborne Radars Market estimates & forecasts by Range 2022-2032 (USD Billion)

TABLE 7. Global Airborne Radars Market estimates & forecasts by Frequency Band 2022-2032 (USD Billion)

TABLE 8. Global Airborne Radars Market estimates & forecasts by Installation Type 2022-2032 (USD Billion)

TABLE 9. Global Airborne Radars Market estimates & forecasts by Technology 2022-2032 (USD Billion)

TABLE 10. Global Airborne Radars Market estimates & forecasts by Application 2022-2032 (USD Billion)

TABLE 11. Global Airborne Radars Market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global Airborne Radars Market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. U.S. Airborne Radars Market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. U.S. Airborne Radars Market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 15. Canada Airborne Radars Market estimates & forecasts, 2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Airborne Radars Market, research methodology
- FIG 2. Global Airborne Radars Market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Airborne Radars Market, key trends 2023
- FIG 5. Global Airborne Radars Market, growth prospects 2022-2032
- FIG 6. Global Airborne Radars Market, porters 5 force model
- FIG 7. Global Airborne Radars Market, PESTEL analysis
- FIG 8. Global Airborne Radars Market, value chain analysis
- FIG 9. Global Airborne Radars Market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Airborne Radars Market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Airborne Radars Market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Airborne Radars Market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Airborne Radars Market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Airborne Radars Market, regional snapshot 2022 & 2032
- FIG 15. North America Airborne Radars Market 2022 & 2032 (USD Billion)
- FIG 16. Europe Airborne Radars Market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Airborne Radars Market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Airborne Radars Market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Airborne Radars Market 2022 & 2032 (USD Billion)
- FIG 20. Global Airborne Radars Market, company market share analysis (2023)

.....

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