Global Military Aircraft Collision Avoidance Avionics Market Report and Forecast 2024-2032

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Report description:

Global Military Aircraft Collision Avoidance Avionics Market Report and Forecast 2024-2032
Market Outlook
According to the report by Expert Market Research (EMR), the global military aircraft collision avoidance avionics market size reached a value of USD 765.72 million in 2023. Aided by the escalating demand for enhanced safety measures in military aviation and the adoption of advanced aerospace technologies, the market is projected to further grow at a CAGR of 5.6% between 2024 and 2032 to reach a value of USD 1253.94 million by 2032.
Military aircraft collision avoidance avionics are critical systems designed to prevent mid-air collisions and accidents. These systems are increasingly becoming integral components of military aircraft, driven by the growing complexity of global airspace and the need to maintain operational safety in diverse and challenging environments.
The military aircraft collision avoidance avionics market growth is primarily fueled by the increasing number of military aircraft operations worldwide and the stringent regulations mandating the installation of advanced safety systems. Furthermore, technological advancements in avionics systems, which include radar, automatic dependent surveillance-broadcast (ADS-B), and global positioning systems (GPS), are significantly enhancing the effectiveness and reliability of collision avoidance solutions
Key drivers for the military aircraft collision avoidance avionics market expansion include the heightened focus on safety due to past incidents of aircraft collisions and near-misses. Governments and defence forces worldwide are investing heavily in modernising their fleets with advanced avionics to enhance operational safety and efficiency.
As per the military aircraft collision avoidance avionics market analysis, the integration of artificial intelligence (AI) and machine learning (ML) technologies into collision avoidance systems is revolutionising how military aircraft manage separation and avoid collisions. These technologies enable more accurate real-time data processing and decision-making in complex scenarios.
There is a continuous trend towards the development and integration of advanced sensor technologies, such as LiDAR, radar, and infrared sensors. As per the military aircraft collision avoidance avionics market outlook, these technologies provide enhanced situational awareness by accurately detecting and tracking potential obstacles, both during the day and at night, and under various weather conditions. The improved accuracy and reliability of these sensors are pivotal for the effective functioning of

collision avoidance systems.
Automatic Dependent Surveillance-Broadcast (ADS-B) technologies are becoming standard in military aviation due to their effectiveness in improving airspace safety. ADS-B provides real-time precision tracking of aircraft, which is crucial for effective collision avoidance and traffic management, especially in congested airspace and during complex combat missions which propel the military aircraft collision avoidance avionics market expansion. There is a growing trend towards ensuring that new collision avoidance systems are interoperable with existing military avionics systems. This integration is crucial for the streamlined operation of military aircraft, allowing different systems to communicate and function together seamlessly.
North America leads the global market, driven by the presence of major defence contractors and extensive investment in military technologies by the United States Department of Defense. Europe also holds a significant share due to ongoing upgrades to NATO member fleets and collaborations across various countries to enhance military safety protocols. Asia-Pacific is expected to witness the fastest growth due to increasing defence budgets and a focus on enhancing military capabilities in countries like China, India, and South Korea.
Tighter regulations and safety standards are being implemented, driving the adoption of advanced collision avoidance systems in military aircraft and boosting the military aircraft collision avoidance avionics market share. Regulatory bodies worldwide are mandating the incorporation of these systems to enhance operational safety and reduce the risk of accidents.
Governments and private sector players are increasing their investments in research and development to push the boundaries of what military collision avoidance systems can achieve. This investment is not only focused on developing new technologies but also on refining existing systems to improve their efficiency and integration with other aircraft systems.
Market Segmentation
The market can be divided based on aircraft type, end use, and region.
Market Breakup by Aircraft Type
-Combat Aircraft
-Transport Aircraft
-Rotorcraft
-Unmanned Aerial Vehicles (UAVs)
Market Breakup by End Use
-OEM
-Aftermarket
Market Breakup by Region
-North America
-Europe
-Asia Pacific
-Latin America
-Middle East and Africa

Competitive Landscape
The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global military aircraft collision avoidance avionics market. Some of the major players explored in the report by Expert Market Research are as follows:
-BAE Systems plc
-Thales SA
-Boeing Co
-Avidyne Corporation
-L3Harris Technologies, Inc
-Leonardo S.p.A.
-RTX Corporation (Collins Aerospace)
-Moog Inc.

-Honeywell International Inc.
-Lockheed Martin Corp.
-Others

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Table of Contents:

1 Preface
2 Report Coverage - Key Segmentation and Scope
3 Report Description
  3.1 Market Definition and Outlook
  3.2 Properties and Applications
  3.3 Market Analysis
  3.4 Key Players
4 Key Assumptions
5 Executive Summary
  5.1 Overview
  5.2 Key Drivers
  5.3 Key Developments
  5.4 Competitive Structure
  5.5 Key Industrial Trends
6 Market Snapshot
  6.1 Global
  6.2 Regional
7 Opportunities and Challenges in the Market
8 Global Military aircraft collision avoidance avionics Market Analysis
  8.1 Key Industry Highlights
  8.2 Global Military aircraft collision avoidance avionics Historical Market (2018-2023)
  8.3 Global Military aircraft collision avoidance avionics Market Forecast (2024-2032)
  8.4 Global Military aircraft collision avoidance avionics Market by Aircraft Type
    8.4.1 Combat Aircraft
      8.4.1.1 Historical Trend (2018-2023)
      8.4.1.2 Forecast Trend (2024-2032)
    8.4.2 Transport Aircraft
      8.4.2.1 Historical Trend (2018-2023)
      8.4.2.2 Forecast Trend (2024-2032)
    8.4.3 Rotorcraft

8.4.3.1 Historical Trend (2018-2023)
8.4.3.2 Forecast Trend (2024-2032)
8.4.4 Unmanned Aerial Vehicles (UAVs)
8.4.4.1 Historical Trend (2018-2023)
8.4.4.2 Forecast Trend (2024-2032)
8.5 Global Military aircraft collision avoidance avionics Market by End Use
8.5.1 OEM
8.5.1.1 Historical Trend (2018-2023)
8.5.1.2 Forecast Trend (2024-2032)
8.5.2 Aftermarket
8.5.2.1 Historical Trend (2018-2023)
8.5.2.2 Forecast Trend (2024-2032)
8.6 Global Military aircraft collision avoidance avionics Market by Region
8.6.1 North America
8.6.1.1 Historical Trend (2018-2023)
8.6.1.2 Forecast Trend (2024-2032)
8.6.2 Europe
8.6.2.1 Historical Trend (2018-2023)
8.6.2.2 Forecast Trend (2024-2032)
8.6.3 Asia Pacific
8.6.3.1 Historical Trend (2018-2023)
8.6.3.2 Forecast Trend (2024-2032)
8.6.4 Latin America
8.6.4.1 Historical Trend (2018-2023)
8.6.4.2 Forecast Trend (2024-2032)
8.6.5 Middle East and Africa
8.6.5.1 Historical Trend (2018-2023)
8.6.5.2 Forecast Trend (2024-2032)
9 North America Military aircraft collision avoidance avionics Market Analysis
9.1 United States of America
9.1.1 Historical Trend (2018-2023)
9.1.2 Forecast Trend (2024-2032)
9.2 Canada
9.2.1 Historical Trend (2018-2023)
9.2.2 Forecast Trend (2024-2032)
10 Europe Military aircraft collision avoidance avionics Market Analysis
10.1 United Kingdom
10.1.1 Historical Trend (2018-2023)
10.1.2 Forecast Trend (2024-2032)
10.2 Germany
10.2.1 Historical Trend (2018-2023)
10.2.2 Forecast Trend (2024-2032)
10.3 France
10.3.1 Historical Trend (2018-2023)
10.3.2 Forecast Trend (2024-2032)
10.4 Italy
10.4.1 Historical Trend (2018-2023)

10.4.2 Forecast Trend (2024-2032)
10.5 Others
11 Asia Pacific Military aircraft collision avoidance avionics Market Analysis
11.1 China
11.1.1 Historical Trend (2018-2023)
11.1.2 Forecast Trend (2024-2032)
11.2 Japan
11.2.1 Historical Trend (2018-2023)
11.2.2 Forecast Trend (2024-2032)
11.3 India
11.3.1 Historical Trend (2018-2023)
11.3.2 Forecast Trend (2024-2032)
11.4 ASEAN
11.4.1 Historical Trend (2018-2023)
11.4.2 Forecast Trend (2024-2032)
11.5 Australia
11.5.1 Historical Trend (2018-2023)
11.5.2 Forecast Trend (2024-2032)
11.6 Others
12 Latin America Military aircraft collision avoidance avionics Market Analysis
12.1 Brazil
12.1.1 Historical Trend (2018-2023)
12.1.2 Forecast Trend (2024-2032)
12.2 Argentina
12.2.1 Historical Trend (2018-2023)
12.2.2 Forecast Trend (2024-2032)
12.3 Mexico
12.3.1 Historical Trend (2018-2023)
12.3.2 Forecast Trend (2024-2032)
12.4 Others
13 Middle East and Africa Military aircraft collision avoidance avionics Market Analysis
13.1 Saudi Arabia
13.1.1 Historical Trend (2018-2023)
13.1.2 Forecast Trend (2024-2032)
13.2 United Arab Emirates
13.2.1 Historical Trend (2018-2023)
13.2.2 Forecast Trend (2024-2032)
13.3 Nigeria
13.3.1 Historical Trend (2018-2023)
13.3.2 Forecast Trend (2024-2032)
13.4 South Africa
13.4.1 Historical Trend (2018-2023)
13.4.2 Forecast Trend (2024-2032)
13.5 Others
14 Market Dynamics
14.1 SWOT Analysis
14.1.1 Strengths

14.1.2 Weaknesses
14.1.3 Opportunities
14.1.4 Threats
14.2 Porter's Five Forces Analysis
14.2.1 Supplier's Power
14.2.2 Buyer's Power
14.2.3 Threat of New Entrants
14.2.4 Degree of Rivalry
14.2.5 Threat of Substitutes
14.3 Key Indicators for Demand
14.4 Key Indicators for Price
15 Competitive Landscape
15.1 Market Structure
15.2 Company Profiles
15.2.1 BAE Systems plc
15.2.1.1 Company Overview
15.2.1.2 Product Portfolio
15.2.1.3 Demographic Reach and Achievements
15.2.1.4 Certifications
15.2.2 Thales SA
15.2.2.1 Company Overview
15.2.2.2 Product Portfolio
15.2.2.3 Demographic Reach and Achievements
15.2.2.4 Certifications
15.2.3 Boeing Co
15.2.3.1 Company Overview
15.2.3.2 Product Portfolio
15.2.3.3 Demographic Reach and Achievements
15.2.3.4 Certifications
15.2.4 Avidyne Corporation
15.2.4.1 Company Overview
15.2.4.2 Product Portfolio
15.2.4.3 Demographic Reach and Achievements
15.2.4.4 Certifications
15.2.5 L3Harris Technologies, Inc.
15.2.5.1 Company Overview
15.2.5.2 Product Portfolio
15.2.5.3 Demographic Reach and Achievements
15.2.5.4 Certifications
15.2.6 Leonardo S.p.A.
15.2.6.1 Company Overview
15.2.6.2 Product Portfolio
15.2.6.3 Demographic Reach and Achievements
15.2.6.4 Certifications
15.2.7 RTX Corporation (Collins Aerospace)
15.2.7.1 Company Overview
15.2.7.2 Product Portfolio

15.2.7.3 Demographic Reach and Achievements
15.2.7.4 Certifications
15.2.8 Moog Inc.
15.2.8.1 Company Overview
15.2.8.2 Product Portfolio
15.2.8.3 Demographic Reach and Achievements
15.2.8.4 Certifications
15.2.9 Honeywell International Inc.
15.2.9.1 Company Overview
15.2.9.2 Product Portfolio
15.2.9.3 Demographic Reach and Achievements
15.2.9.4 Certifications
15.2.10 Lockheed Martin Corp.
15.2.10.1 Company Overview
15.2.10.2 Product Portfolio
15.2.10.3 Demographic Reach and Achievements
15.2.10.4 Certifications
15.2.11 Others
16 Key Trends and Developments in the Market

List of Key Figures and Tables

1. Global Military aircraft collision avoidance avionics Market: Key Industry Highlights, 2018 and 2032
2. Global Military aircraft collision avoidance avionics Historical Market: Breakup by Aircraft Type (USD Billion), 2018-2023
3. Global Military aircraft collision avoidance avionics Market Forecast: Breakup by Aircraft Type (USD Billion), 2024-2032
4. Global Military aircraft collision avoidance avionics Historical Market: Breakup by End Use (USD Billion), 2018-2023
5. Global Military aircraft collision avoidance avionics Market Forecast: Breakup by End Use (USD Billion), 2024-2032
6. Global Military aircraft collision avoidance avionics Historical Market: Breakup by Region (USD Billion), 2018-2023
7. Global Military aircraft collision avoidance avionics Market Forecast: Breakup by Region (USD Billion), 2024-2032
8. North America Military aircraft collision avoidance avionics Historical Market: Breakup by Country (USD Billion), 2018-2023
9. North America Military aircraft collision avoidance avionics Market Forecast: Breakup by Country (USD Billion), 2024-2032
10. Europe Military aircraft collision avoidance avionics Historical Market: Breakup by Country (USD Billion), 2018-2023
11. Europe Military aircraft collision avoidance avionics Market Forecast: Breakup by Country (USD Billion), 2024-2032
12. Asia Pacific Military aircraft collision avoidance avionics Historical Market: Breakup by Country (USD Billion), 2018-2023
13. Asia Pacific Military aircraft collision avoidance avionics Market Forecast: Breakup by Country (USD Billion), 2024-2032
14. Latin America Military aircraft collision avoidance avionics Historical Market: Breakup by Country (USD Billion), 2018-2023
15. Latin America Military aircraft collision avoidance avionics Market Forecast: Breakup by Country (USD Billion), 2024-2032
16. Middle East and Africa Military aircraft collision avoidance avionics Historical Market: Breakup by Country (USD Billion), 2018-2023
17. Middle East and Africa Military aircraft collision avoidance avionics Market Forecast: Breakup by Country (USD Billion), 2024-2032
18. Global Military aircraft collision avoidance avionics Market Structure

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