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Airborne Collision Avoidance System Market By Platform (Fixed Wing, Rotary Wing, Unmanned Aerial Vehicle (UAV)) , By Component (Processor, Mode S & C Transponder, Display Unit) By Type (ACAS I & TCAS I, ACAS II & TCAS II, Portable Collision Avoidance System (PCAS) , FLARM) By Sales Channel (Original Equipment Manufacturer (OEM) , Aftermarket) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The airborne collision avoidance system market was valued at $0.7 billion in 2023, and is projected t%li%reach $1.0 billion by 2033, growing at a CAGR of 3.5% from 2024 t%li%2033.

Airborne collision avoidance system is a safety-enhancing device in aviation designed t%li%prevent mid-air collisions between aircraft. The system operates independently of ground-based air traffic control systems, utilizing onboard sensors and transponders t%li%detect the presence and trajectory of other aircraft in the vicinity. The most widely implemented version of airborne collision avoidance system is the traffic collision avoidance system (TCAS), which has become a standard in commercial aviation t%li%enhance situational awareness and improve flight safety.

The growth of the global airborne collision avoidance system market is majorly driven by continuous growth in global air travel that leads t%li%higher traffic density in airspace and mandates implemented by the aviation authorities, such as the Federal Aviation Administration (FAA) and the European Union Aviation Safety Agency (EASA), for the

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installation of airborne collision avoidance system in commercial and certain categories of general aviation aircraft. In addition, increase in focus of the airlines and aviation companies in prioritizing passenger and crew safety as well as rise in use of unmanned aerial vehicles and drones in commercial and military applications drive the need for effective collision avoidance systems t%li%prevent accidents. Recent studies have indicated that the use of airborne collision avoidance system has significantly reduced the number of mid-air collision incidents. For instance, the implementation of TCAS II in commercial aviation is estimated t%li%have decreased the risk of mid-air collisions by over 80%. Furthermore, surge in demand for advanced collision avoidance systems from the defense sector for military aircraft, including fighters, transporters, and unmanned aerial vehicles, acts as the key driving force of the global market. Utilization of data analytics and real-time data sharing t%li%enhance the effectiveness of airborne collision avoidance system and provide better situational awareness for pilots and air traffic controllers further fosters the market growth. Moreover, airlines are focusing on upgrading and retrofitting older aircraft with modern safety systems that propels t%li%the market expansion. However, high initial cost of installing airborne collision avoidance system in aircraft deter smaller airlines and general aviation operators from adopting these systems, thus hampering the market growth. In addition, integrating airborne collision avoidance system with existing avionics and air traffic management systems is complex and time-consuming, which require technical expertise, thus incurring additional cost and limiting the market growth. On the contrary, innovations in sensor technology, data processing, and communication systems enhance the functionality and reliability of airborne collision avoidance system, which are expected t%li%offer remunerative opportunities for the market growth. Furthermore, advances in technology are leading t%li%smaller, lighter, and more cost-effective airborne collision avoidance systems, making them more accessible for a wider range of aircraft, including smaller general aviation planes and drones. Such developments are anticipated t%li%open new avenues for the expansion of the market during the forecast period.

The global airborne collision avoidance system market is segmented int%li%platform, component, type, sales channel, and region. On the basis of platform, the market is divided int%li%fixed wing, rotary wing, and unmanned aerial vehicle (UAV) . As per component, it is segregated int%li%processor, mode S & C transponder, and display unit. By type, it is classified int%li%ACAS I & TCAS I, ACAS II & TCAS II, portable collision avoidance system (PCAS) , and FLARM. Depending on sales channel, it is categorized int%li%original equipment manufacturer (OEM) and aftermarket. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

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Key Findings

On the basis of platform, the fixed wing segment acquired the highest market share in 2023.

As per component, the processor segment dominated the market in 2023.

By type, the ACAS II & TCAS II segment led the market, in terms of share, in 2023.

Depending on sales channel, original equipment manufacturer (OEM) emerged as the leading shareholder in 2023.

Region wise, Asia-Pacific is poised for rapid growth in the airborne collision avoidance system market by 2033.

Competition Analysis

Competitive analysis and profiles of the major players in the global airborne collision avoidance system market include BAE Systems Plc., FLARM Technology Ltd., Garmin Ltd., Honeywell International Inc, L3 Technologies, Inc., Lockheed Martin Corporation, QinetiQ Group Plc., Rockwell Collins Inc., SAAB Group, and Thales Group. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships t%li%sustain the intense competition and strengthen their foothold in the global market.

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Technology Trend Analysis

Additional company profiles with specific t%li%client's interest

Brands Share Analysis

Historic market data

SWOT Analysis

Key Market Segments

By Platform

Fixed Wing

Rotary Wing

Unmanned Aerial Vehicle (UAV)

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By Component

- Processor
- Mode S C Transponder
- Display Unit

By Type

- ACAS I TCAS I
- ACAS II TCAS II
- Portable Collision Avoidance System (PCAS)
- FLARM

By Sales Channel

- Original Equipment Manufacturer (OEM)
- Aftermarket

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe

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France

Germany

Italy

Spain

UK

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Thailand

Malaysia

Indonesia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

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CHAPTER 8: COMPETITIVE LANDSCAPE

CHAPTER 9: COMPANY PROFILES

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