

Commercial Aircraft Collision Avoidance System - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

Market Report | 2024-02-17 | 100 pages | Mordor Intelligence

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Report description:

The Commercial Aircraft Collision Avoidance System Market size is estimated at USD 439.46 million in 2024, and is expected to reach USD 551.59 million by 2029, growing at a CAGR of 4.65% during the forecast period (2024-2029).

Key Highlights

- The aviation sector faced unmatched challenges due to covid-19 pandemic. The pandemic had a severe impact on the overall aviation sector due to the lockdown imposed by the government, airline shutdown, and reduced aircraft deliveries. Airbus, an aircraft OEM slowed the rate of plane making due to a loss of USD 2.09 billion in the first half of 2020. Also, the orders for new aircraft collapsed during the second quarter, as the reduced air traffic prompted airlines to cut spending commitments drastically. The market showed a strong recovery from 2021 due to increased air traffic and relaxation in government regulations.
- The enhanced safety regulations by the aviation regulatory authorities have necessitated the adoption of advanced collision avoidance systems on the existing fleet of commercial aircraft. As per the International Civil Aviation Organization (ICAO) Annex 10, Version 7.1, TCAS II is mandated by the US for commercial aircraft, including regional aircraft, with more than 30 seats or a maximum takeoff weight greater than 33,000 lbs.
- The rapid increase in global passenger traffic has encouraged airline operators to initiate procurement drives and place firm orders for new-generation aircraft. Since the installation of a collision-avoidance system is mandated as per the ICAO regulations, new aircraft deliveries may drive the prospects of line-fit installation of such equipment.

Commercial Aircraft Collision Avoidance System Market Trends

Narrow-Body Aircraft Segment Will Showcase Highest Growth During the Forecast Period

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- The narrow-body aircraft segment is projected to show significant growth in the market during the forecast period. The growth is attributed to the increasing demand for narrow-body aircraft from airlines and growing aircraft deliveries from Airbus and Boeing. In 2022, Airbus and Boeing delivered 569 and 387 narrow-body aircraft, respectively.
- The growth of air passenger traffic is also supplemented by the emergence of the low-cost carrier (LCC) business model, wherein the primary focus of airline operators is on catering to more customers at a minimal cost per mile per passenger. The typical cost-saving practices of LCCs have promoted the adoption of a single aircraft type, generally a narrow-body aircraft, to minimize operational costs and earn maximum revenues by stimulating traffic through competitive pricing strategies.
- For instance, in June 2023, IndiGo announced the largest-ever single aircraft purchase order of 500 Airbus A320 family of narrow-body aircraft. The aircraft will be delivered between 2030 and 2035. The airlines announced that the order book consists of A320 New Engine Options (NEO), A321NEO, and A321XLR aircraft. Thus, growing demand for narrow-body aircraft and rising procurement contracts from airlines drive the growth of the segment during the forecast period.

North America to Dominate the Market During the Forecast Period

- North America is anticipated to show significant growth in the commercial aircraft collision avoidance system market during the forecast period. The growth is due to the presence of a well-flourished aviation industry and the largest commercial aircraft fleet in the world.
- The US aerospace industry is mature and strongly supported by robust aviation infrastructure. The presence of a highly vigilant aviation regulatory agency, the FAA, which actively participates in the formulation and update of applicable regulations for civil and commercial aviation, has driven the adoption of mandated safety measures, such as the integration of CAS onboard every aircraft originating or operating in the US airspace.
- The growing air traffic has resulted in the procurement of more aircraft by many regional and international airline operators in the region. Boeing, one of the major aircraft OEMs based in the US, generates a huge demand for aircraft collision avoidance systems. As OEMs receive new orders for aircraft, the demand is simultaneously generated for commercial aircraft collision avoidance systems, as the FAA mandates the installation of collision systems in all active aircraft. Hence, the growing focus on passengers safety and strict regulations from FAA regarding flight safety drive the growth of the market across the region.

Commercial Aircraft Collision Avoidance System Industry Overview

The commercial aircraft collision avoidance system market is moderately consolidated in nature due to the presence of a few players holding significant shares in the market. Some of the major players dominating the market are THALES, L3Harris Technologies Inc., Honeywell International Inc., BAE Systems PLC, and Garmin Ltd. The manufacturers of commercial aircraft collision avoidance systems are investing in the development and integration of advanced features to complement or enhance their performance characteristics, including safety.

Collins Aerospace, a subsidiary of RTX Corporation, provides TTR-2100, the next-generation TCAS II system, which is based on technology the company developed for the 787 ISS-2100 integrated surveillance system. The TTR-2100 next-generation collision avoidance and surveillance technology enable both TCAS II and Traffic Computer (ADS-B In) capability. Thus, rising spending on research and development and increasing safety concerns will drive market growth in the coming years.

Additional Benefits:

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- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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