Airborne Sensors Market Forecast 2030: Reaching USD 14.5 billion with a 5.3% CAGR

Airborne Sensors Market (2021-2030) Trend Analysis Report, by Type (Non-Scanning, Scanning), by Application (Defence Aircraft, Commercial Aircraft, Others)

Airborne Sensors Market

WILMINGTON, DE, UNITED STATES, July 7, 2026 /EINPresswire.com/ -- The global airborne sensors market generated $9.2 billion in 2021, and is estimated to generate $14.5 billion by 2030, witnessing a CAGR of 5.3% from 2022 to 2030.

Increase in international terrorism threats and surge in defense & military budgets to strengthen national security in developing and developed countries drive the growth of the global airborne sensors market. In addition, product development & innovations, technological advancements, and rise in R&D investments present new opportunities in the coming years.

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Extensive demand for airborne sensors in the defense sector may act as the major driving factor for the market.

An airborne sensor is a type of operator that can gather the information from airborne platforms; it can be manned or unmanned. It is mostly used for the missions such as military, public safety, academic and commercial remote sensing purposes. In defense sector, airborne sensors support surveillance, intelligence, and reconnaissance collection operations. Also, it can be used in Combat Search & Rescue (CSAR) and tactical combat operations. Moreover, signal intelligence plays vital role in government and defence authorities. Moreover, combination of signal intelligence and airborne sensor helps in detecting, identifying, locating, and tracking the full-time spectrum awareness and intelligence to national as well as a tactical user.

The airborne sensor industry will be witnessing a massive growth mainly because of the increase in adoption of airborne sensors in the defense sector. Airborne sensors can support surveillance, intelligence, and reconnaissance collection operations in military missions.

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The global airborne sensors market is segmented on the basis of type, application, and region. By type, the market has been divided into non-scanning and scanning airborne sensors. By application, the analysis has been divided into defense aircraft, commercial aircraft, and others. By region, the market is analysed across North America, Europe, Asia-Pacific, and LAMEA.

Based on region, North America accounted for the highest market share in terms of revenue in 2021, holding more than one-fourth of the global airborne sensors market, and is expected to maintain its dominance in terms of revenue by 2030. This is due to rise in public spending on imaging software and integration of smart sensing technologies by leading tech companies such as Uber and Tesla for development of self-driving cars. However, Asia-Pacific is estimated to register the fastest CAGR of 5.9% during the forecast period, owing to surge in demand for improved technologies in radars, electro-optics/infrared (EO/IR) sensors, and others. In addition, the development of next-generation aircrafts and increase in defense contracts supplement the market growth.

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Leading Market Players

Hexagon
Thales Group
Raytheon Technologies
Lockheed Martin Corporation
information systems laboratories
teledyne optech
General Dynamics Corporation
Honeywell International Inc.
ITT Inc.
AVT Airborne Sensing GmbH

The report focuses on the global airborne sensors industry and the major products & applications, where airborne sensors are deployed. It further highlights numerous factors that influence the market growth, such as forecast, trends, drivers, restraints, opportunities, and roles of different key players that shape the market. The report focuses on the overall demand for airborne sensors in various countries, presenting data in terms of both value and volume. The revenue is calculated by proliferating the volume by region-specific prices, considering the

region-wise differentiated prices.

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