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Report Information

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Attitude and Heading Reference Systems Market Research Report - Global Forecast till 2027

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Description:

Market Scenario

Global Market for Attitude and Heading Reference Systems is projected to reach USD 742.07 Million by 2026, expanding at a CAGR of 5.2% between 2020 and 2026. Attitude and heading reference systems (AHRS) enable pilots to operate aircraft efficiently and safely. AHRS provides vital information about aircraft, including roll, pitch, and yaw. Moreover, the AHRS are widely used in military aircraft to carry out military missions efficiently. AHRS is also used in UAVs by military agencies globally.

Market Synopsis

Global Attitude and Heading Reference Systems Market has witnessed high growth in recent years owing to the increasing defense expenditures, growing passenger traffic, and a significant rise in demand for new aircraft. However, the higher time consumption in AHRS initialization is expected to restrict the market growth to some extent.

Market USP

The increasing need for attitude and heading reference systems to increase efficiency and safety of operations

Market Drivers

- **Increasing Defense Expenditures:** Globally, military spending has increased significantly in recent years. According to the Stockholm International Peace Research Institute (SIPRI), global military expenditure rose by 2.6% to approximately USD 1.82 trillion from 2017 to 2019. The increase in defense expenditure is expected to boost the demand for technologically advanced aircraft such as fighter jets, UAVs, and helicopters, which is also expected to drive the demand for attitude and heading reference systems during the review period.
- **Significant Increase in Air Passenger Traffic and Demand for New Aircraft**

Market Opportunities

- Integration of AHRS with GPS
- Commercialization of unmanned aerial vehicles

Segmentation

By Type

- **Conventional AHRS:** The segment accounted for

the second-largest market share in 2019. Conventional AHRS uses mechanical gyroscopic instruments and is largely used for conventional aircraft and ships.

- **Air Data AHRS:** The segment accounted for the largest market share in 2019. This is due to the extensive use of air data AHRS in modern aircraft. Air data AHRS provides additional information such as airspeed, outside air temperature, and altitude.
- **GPS-aided AHRS:** The segment is expected to record the highest CAGR during the forecast period. This is due to the increasing use of GPS-aided AHRS for UAVs from the last few years.

By Platform

- **Commercial Aviation:** The segment accounted for the largest share in 2019. There has been a rise in air passenger traffic globally. According to the International Air Transport Association (IATA), global air travel is likely to double by 2036. Thus, to cater to the increasing passenger traffic, there has been a corresponding increase in the demand for new aircraft. The AHRS is a vital component in an aircraft, which is expected to drive the market growth.
- **Military Aviation:** The segment is expected to grow at a steady CAGR during the forecast period. This is due to the modernization of existing military aircraft with advanced systems. Moreover, the increasing demand for fighter jets globally is also expected to drive the growth of this segment.
- **UAV:** The segment is expected to witness the highest growth during the forecast period, 2020 to 2026. The increasing use of UAVs for surveillance, border patrol, intelligence, reconnaissance, and missile detection by the military agencies and commercial applications globally is driving the growth of this segment.

By Region

- **North America:** North America dominates the attitude and heading reference systems market. This trend is projected to continue during the forecast period due to the presence of prominent players such as Honeywell International, Inc., Northrop Grumman Corporation, Raytheon Technologies Corporation, and Moog, Inc. and high investments by these companies in the development of attitude and heading reference systems.
- **Europe:** The increasing adoption of fighter jets and UAVs by military forces for tactical missions is expected to drive the growth of the European market in the review period.
- **Asia-Pacific:** The attitude and heading reference

systems market in this region is projected to expand at a high CAGR during the forecast period. The increase in the demand for new aircraft and defense expenditures of countries such as India and China are driving the regional market growth.

- **Middle East & Africa:** The increase in defense expenditures by countries such as Saudi Arabia, the UAE, and Israel, and the presence of major airlines such as Etihad Airways and Saudi Arabian Airlines is driving the market growth in the Middle East & Africa.
- **Latin America:** In Latin America, there has been an increase in the use of UAVs for intelligence gathering on drug trafficking and rebel groups, deforestation monitoring, and control of illegal migration, which is expected to drive the market growth.

Key Players

- Honeywell International Inc. (US)
- Ixblue, Inc. (US)
- Lord Microstrain (US)
- Meggitt PLC (UK)
- Moog, Inc. (US)
- Northrop Grumman Corporation (US)
- Raytheon Technologies Corporation (US)
- Safran SA (France)
- Sparton Navigation and Exploration, LLC (US)
- Vectornav Technologies, LLC (US)

Global Attitude and Heading Reference System Market

Global Attitude and Heading Reference Systems market is projected to reach USD 742.07 Million by 2026, expanding at a CAGR of 5.2% between 2020 and 2026

BY TYPE

- Conventional AHRS
- Air Data AHRS
- GPS-aided AHRS

BY PLATFORM

- Commercial Aviation
- Military Aviation
- UAV

BY REGION

- North America
- Europe
- Asia-Pacific
- Rest of the World

Global Attitude And Heading Reference Market Share, By Region, 2018



DRIVERS:

- Increasing Defense Expenditures
- Significant Increase in Air Passenger Traffic and Demand for New Aircraft

RESTRAINT:

- Higher time consumption in AHRS initialization

KEY PLAYERS:

- Honeywell International Inc. (US)
- Ixblue, Inc. (US)
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