

Global Aviation Weather Radar Market Size study & Forecast, by Type (Doppler Weather Radar, Wind Profiler), by End User (Airport, Aircraft), by Application (Commercial Aviation, Military Aviation, General Aviation) and Regional Analysis, 2023-2030

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Abstracts

Global Aviation Weather Radar Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Aviation Weather Radar, often referred to as weather radar or airborne weather radar, is a specialized instrument used in aircraft to detect and display information about weather conditions in the surrounding airspace. It helps pilots and meteorologists monitor and navigate through potentially hazardous weather conditions, such as thunderstorms, turbulence, and precipitation. The radar system consists of a transmitter and a receiver installed on the aircraft. The Aviation Weather Radar market is expanding because of factors such as rising air traffic and rising government spending on military modernization activities across the globe.

Aviation weather radar plays a crucial role in ensuring flight safety and efficiency by providing real-time weather information to pilots and air traffic controllers. It helps pilots identify and avoid hazardous weather conditions such as thunderstorms, turbulence, and icing, which can pose risks to aircraft and passengers. Thus, rising air traffic across the globe is driving market growth. The International Air Transport Association (IATA) report 2022, expects overall air traveler numbers to reach 4.0 billion in 2024. From the same source, it has been found that the total number of travelers in 2021 was 47% higher than in 2019 and 83% in 2022, and it is expected to reach 94% by the year 2023, 103% by the year 2024, and 111% by the year 2025. Thus, rising air traffic in the aviation industry is favoring market growth. In addition, the modernization of airborne weather radar systems and the growing adoption of weather information services are

creating a lucrative opportunities for market growth. However, the high cost of Aviation Weather Radar and regulatory hurdles stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Aviation Weather Radar Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to factors such as rising demand for Air Travel, rising government spending on military budgets, and rising technological advancement in the region. Whereas, North America is projected to grow at a significant rate owing to factors such as the presence of key market players, rising number of government projects in the region and rising military expenditure in the region.

Major market player included in this report are:

Honeywell International Inc.

Collins Aerospace (United Technologies Corporation)

Leonardo SpA

Garmin Ltd.

Telephonics Corp

Rockwell Collins

Selex ES GmbH

L3Harris Technologies Inc.

EWR Radar Systems, Inc

Vaisala OYJ

Recent Developments in the Market:

In May 2022, Honeywell International Inc. and ABS Jets have a contract for the upgrade of ABS Jets' Embraer Legacy business aircraft with Honeywell's IntuVueRDR-7000 weather radar. The RDR-7000 weather radar automatically

monitors the sky up to 60,000 feet in the air and 320 nautical miles away. It can detect turbulence more accurately and over wider areas.

In November 2022, The U.S. Federal Aviation Administration (FAA) granted Collins Aerospace and AVIC Leihua Electronic Technology Research Institute (LETRI) TSO certification for COMAC's C919 Weather Radar Flat Plate Antenna (WFA), which was created by LETRI. A TSO is a minimum performance requirement for components, materials, and devices used on civil aircraft.

Global Aviation Weather Radar Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, End User, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest

along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Doppler Weather Radar

Wind Profiler

By End User:

Airport

Aircraft

By Application:

Commercial Aviation

Military Aviation

General Aviation

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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