

# **Global Flight Data Recorder Market Size study, by Principle of Operation (Digital Recording, Magnetic Tape, Solid State Technology), by Component (Memory Unit, Power Supply Components, Recorder Interface Unit, Underwater Locator Beacon), by End-Use (Civil & Commercial Aviation, Military & Defense Aviation) and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Flight Data Recorder Market is valued approximately at USD 1.89 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 5.15% over the forecast period 2024-2032. Flight data recorders are essential devices installed on aircraft to meticulously record various flight parameters, such as altitude, airspeed, and heading, along with pilot voice communications. These recordings are invaluable for accident investigations, aiding in understanding the sequence of events leading up to an incident and preventing future occurrences. The implementation of flight data recorders is driven by the universal emphasis on safety, adherence to international and national aviation regulations, and technological advancements that offer more sophisticated data capture capabilities. The continuous evolution and improvement of flight data recorder systems are essential for maintaining and enhancing the safety and efficiency of aviation operations worldwide.

The Global Flight Data Recorder Market is experiencing robust growth, propelled by several key factors. The increasing air traffic due to robust economic development and rising middle-class income levels, especially in the Asia Pacific region, drives the demand for flight data recorders. In US, stringent regulations by the Federal Aviation Administration (FAA) concerning flight data recording and analysis for safety management are significant drivers. In the European Union, the strong focus on aviation

safety and comprehensive regulations enforced by the European Union Aviation Safety Agency (EASA) fuel the demand for advanced flight data recorder systems. However, high costs of installation and maintenance, which burden smaller or developing region airlines, privacy concerns related to the surveillance of flight operations, and technical difficulties in integrating modern systems into older aircraft can hinder market growth during the forecast period 2024-2032.

The key regions considered for the global Flight Data Recorder market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America was the largest regional market in terms of revenue. The regional market growth is propelled by stringent safety regulations, technological advancements, and the presence of major players in the aerospace and defense industry. Furthermore, the region has substantial investment in research and development (R&D), fostering an environment conducive to the advancement and adoption of cutting-edge technologies like flight data recorders. Furthermore, the market in Asia Pacific is expected to grow at the fastest rate over the forecast period, driven by the rapid growth in the aviation sector and increasing emphasis on safety compliance.

Major market players included in this report are:

Honeywell International Inc.

L3Harris Technologies, Inc.

Curtiss-Wright Corporation

AMETEK, Inc.

AstroNova, Inc.

General Electric Company

Elbit Systems Ltd.

Flight Data Systems by ACR Electronics Inc.

FLYHT Aerospace Solutions Ltd.

Hensoldt AG

The detailed segments and sub-segment of the market are explained below:

By Principle of Operation:

Digital Recording

Magnetic Tape

Solid State Technology

By Component:

Memory Unit

Power Supply Components

Recorder Interface Unit

Underwater Locator Beacon

By End-Use:

Civil & Commercial Aviation

Military & Defense Aviation

Common content for 'Report Description'

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

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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