

Global Glass Cockpit Market Size, Share & Forecast, by Aircraft Type (Cargo, Fighter, Helicopter, Air Transport, Trainer, General Aviation, & Business Jet), by Display Type (PFD, MFD, Backup, & Mission), by Display Size and Regional Forecasts 2025–2035

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Abstracts

The Global Glass Cockpit Market is valued at approximately USD 1.97 billion in 2024 and is projected to expand at a CAGR of 2.20% during the forecast period from 2025 to 2035. A glass cockpit refers to an advanced aircraft cockpit that uses electronic flight instrument displays—typically large, interactive LCD screens—replacing traditional analog dials and gauges. These systems integrate critical flight information into a unified interface, enhancing situational awareness, flight safety, and operational efficiency. The proliferation of modern avionics, the increasing number of aircraft deliveries, and the need for digitalization within both military and commercial aviation sectors have driven the demand for glass cockpit systems. Moreover, as airlines and defense forces pivot toward automation and real-time data visualization, glass cockpit technology has become the backbone of next-generation flight operations.

The surge in aircraft modernization programs and the introduction of next-gen aircraft models have significantly accelerated the adoption of glass cockpit systems. The aviation industry's push for enhanced operational safety and improved pilot efficiency has steered a widespread transition from analog to digital flight decks. According to the International Air Transport Association (IATA), the global passenger traffic is expected to double by 2040, leading to the procurement of new aircraft equipped with sophisticated cockpit systems. Additionally, the rapid integration of augmented reality (AR) and artificial intelligence (AI) within cockpit displays—facilitating advanced flight management and predictive maintenance—offers lucrative growth prospects. However, the high cost of installation and the complexities associated with system integration

across legacy aircraft fleets may hinder market expansion over the forecast period of 2025–2035.

The detailed segments and sub-segments included in the report are:

By Aircraft Type:

Cargo

Fighter

Helicopter

Air Transport

Trainer

General Aviation

Business Jet

By Display Type:

PFD (Primary Flight Display)

MFD (Multi-Function Display)

Backup Display

Mission Display

By Display Size:

Small

Medium

Large

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

The Air Transport segment is expected to dominate the market during the forecast period. With the global commercial aviation sector witnessing an unprecedented rise in air travel demand, air transport aircraft are continuously being upgraded with digital avionics systems to enhance flight efficiency and reduce pilot workload. Airlines are also emphasizing improved fuel management, flight navigation, and safety assurance, all of which are efficiently facilitated by glass cockpit systems. Furthermore, major aircraft manufacturers are investing heavily in full-glass flight decks to ensure compliance with the latest safety standards, positioning air transport aircraft as the largest revenue-generating category in this domain. Meanwhile, the fighter aircraft segment is anticipated to register rapid growth due to ongoing defense modernization projects and the integration of real-time mission management systems in military jets.

When segmented by display type, the Multi-Function Display (MFD) segment currently contributes the most substantial share of revenue. MFDs offer pilots a consolidated visualization of navigation, weather, flight data, and tactical information through a single interface, substantially reducing the cognitive load during flight operations. As aviation missions become more data-intensive, the need for multifunctional, adaptive display systems has surged. Conversely, the Primary Flight Display (PFD) segment is poised

for notable growth, driven by continuous improvements in display resolution, real-time telemetry integration, and augmented situational awareness tools. In essence, while MFDs maintain their dominance in revenue contribution, PFDs are emerging as the next frontier of growth in the evolving avionics landscape.

The key regions considered for the Global Glass Cockpit Market include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America currently leads the market, underpinned by its strong aerospace ecosystem, the presence of leading avionics manufacturers, and robust investments in defense aviation programs. The U.S. remains a central hub for cockpit system innovation, propelled by initiatives from major OEMs and government-backed modernization efforts. Europe follows closely, driven by aircraft production and R&D activities spearheaded by Airbus and regional defense collaborations. Meanwhile, Asia Pacific is projected to be the fastest-growing region, bolstered by escalating air traffic, expanding defense budgets, and fleet expansion across nations such as China, India, and Japan. The region's focus on indigenous aircraft development and technological self-reliance further accelerates its growth momentum within this market.

Major market players included in this report are:

Honeywell International Inc.

BAE Systems Plc.

Collins Aerospace (Raytheon Technologies Corporation)

Thales Group

Elbit Systems Ltd.

Garmin Ltd.

Esterline Technologies Corporation

Safran S.A.

L3Harris Technologies, Inc.

Universal Avionics Systems Corporation

Avidyne Corporation

Meggitt PLC

Dynon Avionics

Curtiss-Wright Corporation

Barco NV

Global Glass Cockpit Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

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

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

Customization Scope - Free report customization (equivalent to up to 8 analysts' 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 for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the

market are explained below:

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the 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 the competitive structure of the market.

Demand side and supply side analysis of the market.

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