

# Global Multi-Function Display (MFD) Market Size Study & Forecast, by Technology, Application, End-use, Size, and Regional Forecasts 2025-2035

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## Abstracts

Global Multi-Function Display (MFD) Market is valued at approximately USD 29.21 billion in 2024 and is anticipated to register a compound annual growth rate (CAGR) of 5.55% over the forecast period 2025–2035. A Multi-Function Display, commonly abbreviated as MFD, has evolved far beyond its early applications in aircraft cockpits. Today, it represents the convergence of human-machine interface (HMI) innovation, dynamic real-time visualization, and sophisticated control across domains such as aviation, automotive, marine, consumer electronics, and industrial automation. As global industries pivot toward digitization and intelligent automation, MFDs are gaining momentum as mission-critical components, delivering layered graphical feedback, navigational data, and operational insights—consolidated on a single digital pane.

The proliferation of advanced technologies such as OLED, TFT, and high-resolution LCD panels has transformed MFDs into immersive visual command centers. Increasing deployment of MFDs in commercial and military aircraft for managing flight, radar, and systems diagnostics, combined with the automotive sector's transition to smart dashboards and driver-assist systems, is catalyzing exponential market demand. Moreover, integration of touch-sensitive interfaces and voice-activated systems further enhances MFD usability in next-generation cockpits and vehicles. As governments and OEMs invest heavily in defense modernization and intelligent transportation systems, the appetite for ruggedized, compact, and high-performance displays has expanded rapidly. However, design complexity, production cost, and the need for seamless software-hardware interoperability continue to be notable challenges for manufacturers.

From a geographical standpoint, North America is expected to maintain dominance over the forecast period due to its highly advanced defense infrastructure, rapid avionics

modernization programs, and widespread automotive tech adoption. The U.S. Air Force and aerospace manufacturers have played pivotal roles in sustaining regional leadership. Meanwhile, Europe is emerging as a formidable player driven by naval and civil aviation upgrades in countries like Germany, France, and the UK. Asia Pacific is forecasted to witness the fastest growth, attributed to escalating defense procurement in China and India, alongside an expanding base of electronics manufacturers. With urban mobility pilots, automotive digitization, and consumer demand for premium infotainment systems accelerating, the APAC market is being rapidly reshaped. Simultaneously, the marine and industrial automation sectors are also embracing MFDs to enable smart vessel operations and factory visualization.

Major market players included in this report are:

Garmin Ltd.

Thales Group

Northrop Grumman Corporation

Honeywell International Inc.

Rockwell Collins (Collins Aerospace)

Raymarine (FLIR Systems Inc.)

Barco NV

SAAB AB

BAE Systems

Universal Avionics Systems Corporation

Avidyne Corporation

Elbit Systems Ltd.

Aspen Avionics Inc.

Japan Display Inc.

Panasonic Corporation

## Global Multi-Function Display (MFD) 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 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:

By Technology:

LCD

OLED

LED

TFT

VA

By Application:

Aviation

Marine

Automotive

Consumer Electronics

Industrial

By End-use:

Commercial

Military

Civic

Personal

By Size:

Small

Medium

Large

Extra 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

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 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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