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Multi-Function Display (MFD) Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032

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Abstracts

The Global Multi-Function Display (MFD) Market was valued at USD 19.5 billion in 2023 and is projected to experience a compound annual growth rate (CAGR) of 8% from 2024 to 2032. The growing complexity of modern aircraft systems in both commercial and military applications significantly contributes to the increased adoption of MFDs. These displays integrate information from various flight and navigation systems into a cohesive interface, enhancing pilot situational awareness, reducing cognitive workload, and improving overall safety. Additionally, the ongoing trend toward next-generation avionics and cockpit digitization is a major driving force for MFD growth in the aviation industry. Technological advancements are crucial in elevating the demand for MFDs across multiple sectors.

Innovations such as high-resolution screens, touchscreen capabilities, and ruggedized designs make these displays more efficient and user-friendly. The introduction of materials like organic light-emitting diodes (OLEDs) and enhancements in touch sensitivity, brightness, and durability are broadening the scope of MFD applications, particularly in defense, automotive, and marine industries. The market can be categorized by type, including electronic flight displays (EFDs), heads-up displays (HUDs), and portable MFDs. Among these, the EFD segment is anticipated to grow at a CAGR exceeding 8% during the forecast period.

EFDs have become essential in modern cockpits, replacing traditional analog instruments with digital formats. These displays consolidate crucial flight data—such as altitude, speed, heading, and navigation—into single or multiple screens, thus improving situational awareness and enabling pilots to make informed decisions quickly and effectively. When considering platforms, the multi-function display market is divided into

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land-based, air-based, and sea-based categories. The land-based segment is expected to reach a market value of around USD 18 billion by 2032. This segment primarily serves industries such as defense, automotive, and industrial vehicles.

In defense applications, MFDs are increasingly integrated into military vehicles and command centers, providing real-time navigation, communication, and situational awareness. North America is the leading region in the global multi-function display market, accounting for over 35% of the share in 2023. The region's dominance is attributed to robust demand from the aerospace, defense, and automotive sectors. With a well-established aerospace industry and significant investments from major manufacturers in advanced cockpit technologies, North America is positioned to maintain its leadership in the MFD market. Additionally, the automotive industry contributes significantly, particularly as the focus on electric vehicles and smart technologies continues to grow.

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Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

1.1 Market scope & definitions
1.2 Base estimates & calculations
1.3 Forecast calculations
1.4 Data sources
  1.4.1 Primary
  1.4.2 Secondary
    1.4.2.1 Paid sources
    1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

2.1 Industry synopsis, 2021-2032

CHAPTER 3 INDUSTRY INSIGHTS

3.1 Industry ecosystem analysis
  3.1.1 Factor affecting the value chain
  3.1.2 Profit margin analysis
  3.1.3 Disruptions
  3.1.4 Future outlook
  3.1.5 Manufacturers
  3.1.6 Distributors
3.2 Supplier landscape
3.3 Profit margin analysis
3.4 Key news & initiatives
3.5 Regulatory landscape
3.6 Impact forces
  3.6.1 Growth drivers
    3.6.1.1 Rising demand for advanced cockpit displays in aviation
    3.6.1.2 Technological advancements in display technologies
    3.6.1.3 Increasing use in defense and military applications
    3.6.1.4 Growth of marine and industrial automation applications
  3.6.2 Industry pitfalls & challenges

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3.6.2.1 High development and maintenance costs
3.6.2.2 Technological limitations and reliability concerns
3.7 Growth potential analysis
3.8 Porter’s analysis
3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

4.1 Introduction
4.2 Company market share analysis
4.3 Competitive positioning matrix
4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY TYPE, 2021-2032 (USD MILLION) (MILLION UNITS)

5.1 Key trends
5.2 Electronic flight displays (EFD)
5.3 Heads-up displays (HUD)
5.4 Portable MFDs

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY TECHNOLOGY, 2021-2032 (USD MILLION) (MILLION UNITS)

6.1 Key trends
6.2 LED
6.3 LCD
6.4 OLED
6.5 TFT
6.6 Others

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY PLATFORM, 2021-2032 (USD MILLION) (MILLION UNITS)

7.1 Key trends
7.2 Land-based
7.3 Air-based
7.4 Sea-based

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CHAPTER 8 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2032 (USD MILLION) (MILLION UNITS)

8.1 Key trends
8.2 Navigation
8.3 Surveillance
8.4 Communication
8.5 Weather monitoring
8.6 Others

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY END USE INDUSTRY, 2021-2032 (USD MILLION) (MILLION UNITS)

9.1 Key trends
9.2 Aviation
  9.2.1 Commercial aviation
  9.2.2 Military aviation
  9.2.3 General aviation
9.3 Automotive
  9.3.1 Passenger cars
  9.3.2 Commercial vehicles
9.4 Marine
  9.4.1 Commercial ships
  9.4.2 Military ships
9.5 Defense
  9.5.1 Ground vehicles
  9.5.2 Naval vessels

CHAPTER 10 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2032 (USD MILLION) (MILLION UNITS)

10.1 Key trends
10.2 North America
  10.2.1 U.S.
  10.2.2 Canada
10.3 Europe
  10.3.1 UK
  10.3.2 Germany
  10.3.3 France

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10.3.4 Italy
10.3.5 Spain
10.3.6 Russia
10.4 Asia Pacific
10.4.1 China
10.4.2 India
10.4.3 Japan
10.4.4 South Korea
10.4.5 Australia
10.5 Latin America
10.5.1 Brazil
10.5.2 Mexico
10.6 MEA
10.6.1 South Africa
10.6.2 Saudi Arabia
10.6.3 UAE

CHAPTER 11 COMPANY PROFILES

11.1 Aspen Avionics, Inc.
11.2 Astronautics Corporation of America
11.3 Avidyne Corporation
11.4 BAE Systems
11.5 Barco N.V.
11.6 Collins Aerospace
11.7 Elbit Systems
11.8 Esterline Technologies
11.9 FLIR Systems
11.10 Garmin Ltd.
11.11 Honeywell International Inc.
11.12 Lockheed Martin Corporation
11.13 Northrop Grumman Corporation
11.14 Rockwell Collins
11.15 Saab AB
11.16 SAMTEL GROUP
11.17 Thales Group
11.18 Transdigm Group, Inc.
11.19 United Technologies Corporation
11.20 Universal Avionics Systems Corporation

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