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Global Microdisplays Market Size Study, by Product (Near-To-Eye, Projection, Others), by Technology (LCD, OLED, LCoS, DLP), by Application (Consumer Electronics, Automotive, Military & Defense, Medical Applications, Industrial Systems, Others), and Regional Forecasts 2022–2032

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Abstracts

The global microdisplays market, valued at approximately USD 1.1 billion in 2023, is poised to grow at a robust CAGR of 18.2% during the forecast period 2024–2032. The surging demand for compact and high-resolution display technologies, along with advancements in augmented reality (AR) and virtual reality (VR) solutions, has been a major growth driver. Additionally, increasing adoption of near-to-eye displays in wearable devices, head-up displays (HUDs), and advanced driver-assistance systems (ADAS) across various industries is expected to propel market growth.

The rising integration of microdisplays in consumer electronics, automotive systems, and healthcare equipment underscores their significance. Near-to-eye displays dominated the product segment in 2023 due to their application in AR/VR systems, offering high pixel density and compact design. Furthermore, advancements in OLED and Liquid Crystal on Silicon (LCoS) technologies are anticipated to create significant growth opportunities in projection systems and wearable displays.

Regionally, North America accounted for a substantial share in 2023, driven by technological innovation and the widespread adoption of AR/VR devices. Asia Pacific is projected to exhibit the fastest growth during the forecast period, owing to the increasing demand for consumer electronics and automotive advancements in key countries such as China, Japan, and India.

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Key players, including LG DISPLAY CO., LTD., eMagin (Samsung Display), Sony Corporation, Kopin Corporation, and AUO Corporation, are driving the competitive landscape with strategies centered on innovation, strategic collaborations, and global market expansion.

Major market players included in this report are:

LG DISPLAY CO., LTD.

eMagin (Samsung Display)

Sony Corporation

Kopin Corporation

AUO Corporation

Micron Technology, Inc.

Himax Technologies, Inc.

Syndiant

Universal Display

MicroVision

Emerging competitors

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

By Product

Near-To-Eye

Projection

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Others

By Technology

Liquid Crystal Display (LCD)

Organic Light-emitting Diode (OLED)

Liquid Crystal on Silicon (LCoS)

Digital Light Processing (DLP)

By Application

Consumer Electronics

Military & Defense

Medical Applications

Industrial Systems

Automotive

Others

By Region:

North America

U.S.

Canada

Europe

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- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe (ROE)

Asia Pacific

- China
- India
- Japan
- South Korea
- Australia
- Rest of Asia Pacific (RoAPAC)

Latin America

- Brazil
- Mexico
- Rest of Latin America

Middle East & Africa

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Saudi Arabia

South Africa

Rest of Middle East & Africa (RoMEA)

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Comprehensive revenue forecasts and regional-level insights.

Analysis of market trends and drivers across key segments.

Strategic insights into competitive dynamics and leading companies.

Regional breakdown and country-specific market insights.

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