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Microdisplay Market Report by Product (Near-To-Eye (NTE) Devices, Head-Up Display (HUD), Projector, and Others), Technology (Liquid Crystal Display (LCD), Liquid Crystal on Silicon (LCOS), Organic Light-Emitting Diode (OLED), Digital Light Processing (DLP)), Resolution (Lower Than HD, HD, FHD, Higher Than FHD), Brightness (Less Than 500 Nits, 500–1,000 Nits, More Than 1,000 Nits), End-User (Consumer, Industrial and Enterprise, Automotive, Military, Defense, and Aerospace, Sports and Entertainment, Retail and Hospitality, Medical, Education, and Others), and Region 2024-2032

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Abstracts

The global microdisplay market size reached US$ 2.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 9.2 Billion by 2032, exhibiting a growth rate (CAGR) of 17.1% during 2024-2032.

A microdisplay is a small-sized screen with a diagonal size of less than two inches. It is commonly used in rear-projection televisions (TVs), head-mounted displays (HMDs), head-up displays (HUDs), data projectors, and Near-To-Eye (NTE) devices and as viewfinders in digital cameras. It can either be transmissive or reflective type depending upon the mode of transmission of light through the display unit. Reflective microdisplays are used in Digital Light Processing (DLP) projectors, whereas transmissive microdisplays are used in backlit laptop computer screens.

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Some of the chief characteristics of microdisplays include high resolution, excellent picture quality, low power consumption and compact size. Owing to these advantages, they find wide applications across industries such as military and defense, consumer electronics and healthcare. The increasing popularity of augmented/virtual reality (AR/VR) and the development of high-definition and ultra-high-definition microdisplay screens are among the critical factors driving the demand for microdisplays in these industries. For instance, AR and VR headsets require highly advanced microdisplays to offer the best performance to the user. Additionally, there is an increasing demand for lightweight and compact VR glasses which are made using large-area microdisplays. Apart from this, HMDs are extensively used in the gaming, sports and entertainment sectors in products such as TV sets, tablets, smartphones and cameras, thus further catalyzing the demand for these screens.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global microdisplay market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on product, technology, resolution, brightness and end user.

Breakup by Product:

Near-To-Eye (NTE) Devices
Head-Up Display (HUD)
Projector
Others

Breakup by Technology:

Liquid Crystal Display (LCD)
Liquid Crystal on Silicon (LCOS)
Organic Light-Emitting Diode (OLED)
Digital Light Processing (DLP)

Breakup by Resolution:

Lower Than HD
HD
FHD

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Higher Than FHD

Breakup by Brightness:

Less Than 500 Nits
500–1,000 Nits
More Than 1,000 Nits

Breakup by End-User:

Consumer
Industrial and Enterprise
Automotive
Military, Defense, and Aerospace
Sports and Entertainment
Retail and Hospitality
Medical
Education
Others

Breakup by Region:

North America
Europe
Asia Pacific
Middle East and Africa
Latin America
Competitive Landscape:
The report has also analysed the competitive landscape of the market with some of the leading players being Kopin Corporation, Himax Technologies, Inc, eMagin Corporation, WiseChip Semiconductor Inc, Microtips Technology, LLC, Universal Display Corporation, Sony Semiconductor Solutions Corporation, Micron Technology Inc., LG Display Co. Ltd., Seiko Epson Corporation, Yunnan Olightek Opto-Electronic Technology Co., Ltd, Jasper Display Corp., etc.

Key Questions Answered in This Report

1. What was the size of the global microdisplay market in 2023?
2. What is the expected growth rate of the global microdisplay market during

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2024-2032?
3. What are the key factors driving the global microdisplay market?
4. What has been the impact of COVID-19 on the global microdisplay market?
5. What is the breakup of the global microdisplay market based on the product?
6. What is the breakup of the global microdisplay market based on the technology?
7. What is the breakup of the global microdisplay market based on the resolution?
8. What is the breakup of the global microdisplay market based on the brightness?
9. What is the breakup of the global microdisplay market based on the end-user?
10. What are the key regions in the global microdisplay market?
11. Who are the key players/companies in the global microdisplay market?

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