

Micro Display Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Liquid Crystal on Silicon (LCOS) Micro Displays, Digital Light Processing (DLP) Micro Displays, Organic Light-Emitting Diode (OLED) Micro Displays, Liquid Crystal Display (LCD) Micro Displays, Micro LED Displays) By Display Size (Small Micro Displays, Medium Micro Displays, Large Micro Displays) By End-User (Healthcare, Automotive, Aerospace and Defense, Consumer Electronics, Industrial and Manufacturing, Entertainment and Gaming, Education and Training) By Region, By Competition, 2019-2029F

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Abstracts

Global Micro Display market was valued at USD 1.19 billion in 2023 and is projected to register a compound annual growth rate of 22.62% during the forecast period. The global Micro Display market has experienced substantial growth in the last decade, driven by its wide adoption across various industry sectors. Key industries, including manufacturing, healthcare, transportation, and logistics, have recognized the crucial role of Micro Display solutions in developing accurate systems for capturing and analyzing operational data. Businesses have made significant investments in advanced Micro Display technologies to meet stringent analytical requirements, ultimately enhancing workflow efficiency and productivity. Leading Micro Display solution providers have introduced innovative offerings with enhanced capabilities, such as improved data

collection infrastructure, wireless device connectivity, and real-time data visualization and analysis. These advancements have resulted in increased scalability and efficiency in data collection projects.

The integration of technologies like IoT devices, sensors, and analytics platforms has revolutionized the capabilities of Micro Display solutions, enabling automated processes, real-time insights generation, and strategic/tactical recommendations for performance monitoring, quality control, and analytics. By leveraging Micro Display solutions, business leaders can ensure high-quality data capture, extract optimal value from the data, and streamline their operations. Organizations across various sectors actively collaborate with Micro Display specialists to develop customized solutions aligned with their unique analytical needs and strategic objectives. Furthermore, the increasing emphasis on evidence-based decision-making is driving demand across these sectors. The Micro Display market's ability to support end-to-end data workflows encompassing large-scale, high-quality data collection will play a crucial role in shaping its long-term prospects. As the need for precise and efficient data capture and analytics continues to rise across different industries, the Micro Display market is expected to maintain its positive trajectory in the years ahead.

Key Market Driver

Advancements in Display Technology

One of the key drivers fueling growth in the micro display market is the ongoing advancements and innovations happening in the display technology space. Micro displays are now being developed using newer display technologies like OLED, MEMS, LCoS which are enabling the creation of smaller, higher resolution displays with improved image quality. OLED micro displays in particular are gaining a lot of traction as they provide better contrast, response time and viewing angles compared to traditional LCD displays. Manufacturers are continuously working on developing micro OLED displays with higher pixel densities, lower power consumption and improved brightness levels. This will expand the potential use cases for micro displays across various industries.

Another related technological driver is the miniaturization of supporting electronics. As microchips and other components get smaller due to ongoing advancements in semiconductor manufacturing technologies like 7nm and 5nm nodes, it allows for the integration of more processing power and functionality into compact micro display modules. This helps drive innovation in areas like augmented reality headsets which

require powerful on-board processing within a small form factor. Advancements in technologies like system-on-chip (SoC) solutions are enabling the development of standalone smart micro displays that do not need to be tethered to an external device for processing.

Rising Demand from Augmented and Virtual Reality Applications

One of the biggest drivers of growth for the micro display market is the rising demand from the augmented reality (AR) and virtual reality (VR) applications space. AR and VR are emerging as major new computing platforms that are expected to transform how people interact with technology. As the AR and VR industries continue to mature over the coming years, it will drive massive demand for micro displays which serve as the core visual component of head mounted displays used in AR smart glasses and VR headsets. Leading technology companies are heavily investing in developing AR smart glasses for the consumer and enterprise markets which will require sophisticated micro displays to deliver quality imaging experiences.

The demand is also coming from the VR headset market where higher resolution micro displays are needed to create more immersive experiences. As VR content and platforms continue to evolve over the next decade, it will push the need for micro displays with even higher pixel densities, wider fields of view and lower latency. The increasing affordability of VR headsets is also expanding the potential customer base which will have a positive ripple effect on micro display sales. As the AR and VR industries scale up significantly in the coming years, it will remain one of the primary growth drivers for the micro display technology.

Increasing Adoption Across Multiple End-Use Industries

Beyond AR/VR, micro displays are also finding numerous applications across other industries which serves as another key driver for market growth. One area is the military and aviation industry where head-up displays (HUDs) and helmet mounted displays (HMDs) are becoming more widely adopted. The demand is driven by the need for enhanced situational awareness and information delivery capabilities on the frontline. The automotive industry is another major adopter where head-up displays are now a growing trend in high-end vehicles. Micro displays enable the projection of critical data like speed, navigation and safety alerts onto the windshield without requiring drivers to take their eyes off the road.

The healthcare industry is also leveraging micro displays for applications like surgical

microscopes, endoscopy systems and medical imaging equipment. Their compactness allows for the integration of enhanced visualization capabilities. Other growing application areas include industrial HMDs for logistics, manufacturing and repair, as well as commercial and consumer applications like smart glasses, projectors, monitors and more. As micro displays continue finding wider use across new domains, it will remain a key driver propelling overall market revenues higher in the coming years.

Key Market Challenges

Supply Chain Disruptions and Component Shortages

One of the major challenges faced by the Micro Display market is the potential for supply chain disruptions and component shortages. The micro display industry relies on a complex global supply chain involving multiple suppliers, manufacturers, and distributors. Any disruption in the supply chain, such as natural disasters, geopolitical tensions, or unexpected events like the COVID-19 pandemic, can have a significant impact on the availability of key components and materials required for micro display production.

The COVID-19 pandemic, for instance, caused widespread disruptions in global supply chains, leading to shortages of critical electronic components. Many micro display manufacturers faced challenges in sourcing essential components like OLED panels, MEMS chips, and other specialized materials. This resulted in production delays, increased costs, and limited availability of micro displays in the market. The pandemic also highlighted the vulnerability of the supply chain to unforeseen events, emphasizing the need for manufacturers to diversify their supplier base and establish contingency plans to mitigate future disruptions.

Furthermore, the increasing demand for micro displays, particularly in emerging technologies like AR and VR, has put additional strain on the supply chain. As the market continues to grow, there is a risk of component shortages due to limited production capacity and insufficient raw materials. Manufacturers need to closely monitor their supply chains, establish strong relationships with suppliers, and invest in strategic inventory management to ensure a steady supply of components and mitigate the risk of shortages. Collaboration and coordination among industry stakeholders are crucial to address these challenges and maintain a stable supply chain for the micro display market.

Technological Limitations and Cost Constraints

Another significant challenge for the Micro Display market is the presence of technological limitations and cost constraints. While micro displays have made significant advancements in terms of resolution, size, and image quality, there are still certain technological limitations that need to be overcome to meet the evolving demands of various industries.

One such limitation is the trade-off between resolution and power consumption. Higher resolution micro displays require more processing power and energy, which can limit their use in battery-powered devices like smartphones, smartwatches, and AR glasses. Manufacturers need to strike a balance between resolution, power consumption, and overall performance to ensure optimal user experience and longer battery life.

Cost is another critical factor that poses challenges for the widespread adoption of micro displays. The production of micro displays involves complex manufacturing processes, specialized equipment, and expensive materials. These factors contribute to the high cost of micro displays, making them less accessible for certain applications and industries. To drive market growth, manufacturers need to focus on reducing production costs through economies of scale, process optimization, and advancements in manufacturing technologies. Additionally, collaboration with component suppliers and research institutions can help in developing cost-effective alternatives and innovative solutions.

Moreover, the micro display market faces competition from alternative display technologies such as LCD and AMOLED, which have their own advantages and cost considerations. Manufacturers need to continuously invest in research and development to improve the performance and cost-effectiveness of micro displays, making them more competitive in the market.

In conclusion, while the Micro Display market offers significant growth opportunities, it also faces challenges related to supply chain disruptions, component shortages, technological limitations, and cost constraints. Overcoming these challenges requires proactive measures such as diversifying the supply chain, establishing contingency plans, investing in research and development, and optimizing manufacturing processes. By addressing these challenges, the Micro Display market can continue to thrive and meet the increasing demand for high-quality display solutions across various industries.

Key Market Trends

Increasing Adoption of Micro Displays in Consumer Electronics

One of the prominent trends in the Micro Display market is the increasing adoption of micro displays in consumer electronics. Micro displays are finding their way into a wide range of consumer devices, including smartphones, smartwatches, gaming devices, and head-mounted displays. The demand for compact, high-resolution displays with improved image quality is driving this trend.

In the smartphone industry, micro displays are being used in devices with foldable screens, enabling manufacturers to offer larger display sizes without compromising portability. These displays provide a seamless viewing experience and enhance the overall usability of smartphones. Additionally, micro displays are also being integrated into smartwatches, enabling users to access notifications, fitness tracking data, and other information conveniently on their wrists.

Gaming devices are another area where micro displays are gaining traction. Virtual reality (VR) headsets and augmented reality (AR) glasses are becoming increasingly popular among gamers, offering immersive and interactive experiences. Micro displays with high refresh rates, low latency, and wide fields of view are essential for delivering a seamless and realistic gaming experience. As the gaming industry continues to grow, the demand for micro displays in gaming devices is expected to rise significantly.

Furthermore, the adoption of micro displays in head-mounted displays (HMDs) for augmented reality applications is on the rise. AR smart glasses are being developed for various use cases, including industrial applications, healthcare, and consumer applications. Micro displays play a crucial role in delivering high-quality visuals and enabling users to overlay digital information onto the real world. As the technology matures and becomes more affordable, the consumer adoption of AR smart glasses is expected to increase, further driving the demand for micro displays in this segment.

Integration of Micro Displays in Automotive Applications

Another significant trend in the Micro Display market is the integration of micro displays in automotive applications. The automotive industry is witnessing a rapid transformation with the advent of advanced driver-assistance systems (ADAS), autonomous vehicles, and in-vehicle infotainment systems. Micro displays are playing a crucial role in enhancing the driving experience, improving safety, and providing valuable information to drivers.

Head-up displays (HUDs) are becoming increasingly popular in high-end vehicles. Micro displays are used to project critical information, such as speed, navigation instructions, and safety alerts, onto the windshield, allowing drivers to keep their eyes on the road. This technology enhances situational awareness and reduces driver distraction, contributing to improved road safety.

In addition to HUDs, micro displays are being integrated into in-vehicle infotainment systems. These displays provide drivers and passengers with access to various entertainment options, navigation, and vehicle control features. The demand for larger, high-resolution displays with touch functionality is driving the adoption of micro displays in this segment. As automotive manufacturers continue to focus on enhancing the user experience and incorporating advanced technologies, the integration of micro displays in automotive applications is expected to grow.

Advancements in Augmented Reality and Virtual Reality

Advancements in augmented reality (AR) and virtual reality (VR) technologies are driving significant trends in the Micro Display market. AR and VR are revolutionizing various industries, including gaming, entertainment, healthcare, education, and manufacturing. Micro displays play a critical role in delivering immersive and realistic visual experiences in AR and VR devices.

In the AR space, there is a growing demand for AR smart glasses that overlay digital information onto the real world. Micro displays with high pixel densities, wide fields of view, and low latency are essential for creating a seamless and immersive AR experience. Leading technology companies are investing heavily in developing AR smart glasses for both consumer and enterprise applications, driving the demand for micro displays in this segment.

Similarly, VR headsets are becoming more advanced and affordable, leading to increased adoption among consumers and businesses. Micro displays with high refresh rates, low persistence, and high resolution are crucial for delivering a realistic and immersive VR experience. As the VR content and platform ecosystem continues to evolve, the demand for micro displays with improved performance and visual quality is expected to rise.

Moreover, advancements in eye-tracking technology are further enhancing the capabilities of micro displays in AR and VR devices. Eye-tracking enables more natural and intuitive interactions, allowing users to control virtual objects and navigate through

digital environments simply by moving their eyes. This technology is expected to become more prevalent in future AR and VR devices, driving the need for micro displays with integrated eye-tracking capabilities.

In conclusion, the Micro Display market is witnessing several trends that are shaping its growth and development. The increasing adoption of micro displays in consumer electronics, the integration of micro displays in automotive applications, and the advancements in AR and VR technologies are key trends driving the market. As these trends continue to evolve, the demand for micro displays is expected to grow across various industries, presenting significant opportunities for manufacturers and suppliers in the market.

Segmental Insights

By Technology Insights

In 2023, the Organic Light-Emitting Diode (OLED) Micro Displays segment dominated the Micro Display Market and is expected to maintain its dominance during the forecast period. OLED micro displays have gained significant traction due to their superior image quality, high contrast ratio, wide color gamut, and fast response time. These displays offer deeper blacks, vibrant colors, and excellent viewing angles, making them ideal for applications requiring immersive visual experiences.

The dominance of OLED micro displays can be attributed to their widespread adoption in various industries, including consumer electronics, automotive, healthcare, and augmented/virtual reality (AR/VR). In the consumer electronics sector, OLED micro displays are extensively used in smartphones, smartwatches, and portable gaming devices. The-Emitting Diode (OLED) Micro Displays segment dominated the Micro Display Market and is expected to maintain its dominance during the forecast period. OLED micro displays have gained significant traction due to their superior image quality, high contrast ratios, wide color gamut, and fast response times. These displays offer several advantages over other technologies, making demand for high-resolution displays with vibrant colors and deep blacks has driven the preference for OLED technology in these devices.

In the automotive industry, OLED micro displays are increasingly integrated into head-up displays (HUDs) and in-vehicle infotainment systems. These displays provide drivers with critical information them the preferred choice for various applications.

The dominance of OLED micro displays can be attributed to their increasing adoption in consumer electronics, particularly in smartphones and smartwatches, such as speed, navigation instructions, and safety alerts, in a clear and visually appealing manner. The automotive sector's focus on enhancing the driving experience and incorporating advanced technologies has further fueled the demand for OLED micro displays.

The healthcare industry has also witnessed the adoption of OLED micro. OLED displays provide vibrant colors, deep blacks, and excellent viewing angles, enhancing the overall visual experience for users. The demand for smartphones with larger, bezel-less screens and higher resolutions has fueled the growth of OLED micro displays in this segment. Leading smartphone manufacturers have embraced OLED technology, further driving its dominance in the market.

Additionally, OLED micro displays have found applications in the augmented reality (AR) and virtual reality (VR) industries. AR smart glasses and VR headsets require high-resolution displays in applications such as surgical microscopes, endoscopy systems, and medical imaging equipment. These displays offer high-resolution visualization, enabling healthcare professionals to perform precise procedures and diagnose medical conditions accurately.

Displays with low latency and fast refresh rates to deliver immersive experiences. OLED micro displays meet these requirements, making them ideal for AR and VR applications. As the AR and VR markets continue to expand, the demand for OLED micro displays is expected to grow and the AR/VR industry has been a significant driver for OLED micro displays. AR smart glasses and VR headsets require high-quality displays to deliver immersive and realistic experiences. OLED micro displays with their high pixel densities, wide color gamut, and fast response times are well dominance in the market.

The dominance of the automotive industry. Head-up displays (HUDs OLED micro displays in 2023) and is expected to in-vehicle infotainment systems utilize OLED technology to provide drivers with critical information and enhance the overall driving experience. The automotive industry's focus continue during the forecast period due to ongoing advancements in on advanced driver-assistance systems (ADAS) and autonomous vehicles OLED technology, such as the development of flexible and has driven the demand for OLED micro displays in this transparent OLED displays. These advancements open segment. The ability of OLED displays to up new possibilities for innovative form factors and deliver high-quality visuals, even in applications, further driving the demand for bright ambient lighting conditions, has contributed to OLED micro displays.

Looking ahead the increasing investments by key market, OLED micro displays are expected to maintain their players in OLED technology research and development, dominance in the Micro Display Market during along with the expanding OLED manufacturing capacity, are expected to contribute to the sustained dominance of OLED micro displays in the Micro Display Market. However, it is important the forecast period. to note that other segments, The continuous advancements in OLED technology, such as the development of flexible and foldable such as Liquid Crystal on Silicon (OLED displays, will further expand their LCOS) and Micro LED displays, applications across various industries. The increasing demand for are also witnessing growth and may pose high-resolution displays with improved energy efficiency competition to OLED micro displays in the future and durability will drive the growth of. OLED micro displays. Additionally, ongoing research and development efforts to enhance the performance and reduce the production costs of OLED displays will contribute to their sustained dominance in the market. The OLED Micro Displays segment dominated the Micro Display Market in 2023 and is expected to maintain its dominance during the forecast period. The superior image quality, wide color gamut, and increasing adoption in consumer electronics, AR/VR, and automotive applications have propelled the growth of OLED micro displays. With ongoing technological advancements and growing demand for high-resolution displays, OLED micro displays are poised to remain the leading segment in the Micro Display Market.

By Display Size Insights

In 2023, the Small Micro Displays segment dominated the Micro Display Market and is expected to maintain its dominance during the forecast period. Small micro displays, typically ranging from less than 1 inch to around 2 inches in size, have gained significant traction due to their compact form factor and versatility across various applications. These displays find extensive use in consumer electronics, such as smartphones, smartwatches, and portable gaming devices, where space constraints and portability are crucial factors. The dominance of the Small Micro Displays segment can be attributed to the increasing demand for compact and lightweight devices with high-resolution displays. The growing popularity of smartphones and smartwatches, coupled with the trend towards bezel-less designs and larger screen-to-body ratios, has fueled the demand for small micro displays. These displays offer vibrant colors, sharp image quality, and excellent pixel densities, enhancing the overall visual experience for users. Additionally, the Small Micro Displays segment has witnessed significant adoption in the automotive industry, particularly in head-up displays (HUDs) and rearview mirrors, where compact displays are required to provide drivers with critical

information without obstructing their view. The integration of small micro displays in these applications enhances driver safety and convenience. Furthermore, the increasing adoption of augmented reality (AR) and virtual reality (VR) technologies has also contributed to the dominance of the Small Micro Displays segment. AR smart glasses and VR headsets often utilize small micro displays to deliver immersive and realistic visual experiences. These displays offer high pixel densities, fast refresh rates, and low latency, ensuring smooth and lifelike visuals in AR and VR applications. As the AR and VR markets continue to expand, the demand for small micro displays is expected to grow, further solidifying their dominance in the Micro Display Market. Looking ahead, the increasing demand for compact and portable devices, advancements in display technology, and the growing adoption of AR and VR applications are expected to drive the sustained dominance of the Small Micro Displays segment in the Micro Display Market during the forecast period. However, it is important to note that medium and large micro displays may gain traction in certain niche applications, such as medical imaging, industrial displays, and digital signage, where larger screen sizes are required. The availability of larger micro displays with improved energy efficiency and cost-effectiveness may pose competition to the Small Micro Displays segment in the future. Nonetheless, the Small Micro Displays segment is poised to remain the leading segment in the Micro Display Market, catering to the increasing demand for compact, high-resolution displays across various industries..

Regional Insights

In 2023, the Asia-Pacific region dominated the Micro Display Market and is expected to maintain its dominance during the forecast period. The Asia-Pacific region, which includes countries such as China, Japan, South Korea, and India, has emerged as a major hub for the production and consumption of micro displays. The dominance of the Asia-Pacific region can be attributed to several factors. Firstly, the region is home to some of the largest consumer electronics manufacturers and technology companies, driving the demand for micro displays in smartphones, smartwatches, and other portable devices. China, in particular, has a strong presence in the consumer electronics market and is a major contributor to the growth of the Micro Display Market. Additionally, the Asia-Pacific region has witnessed significant advancements in the automotive industry, with countries like Japan and South Korea being leaders in automotive manufacturing. The integration of micro displays in head-up displays (HUDs), infotainment systems, and other automotive applications has further fueled the demand for micro displays in the region. Moreover, the Asia-Pacific region has seen rapid growth in the adoption of augmented reality (AR) and virtual reality (VR) technologies across various industries, including gaming, entertainment, and

healthcare. Micro displays play a crucial role in delivering immersive visual experiences in AR and VR devices, driving their demand in the region. Furthermore, the Asia-Pacific region has a strong focus on research and development, with significant investments being made in display technologies. This has led to the development of advanced micro display solutions and has further strengthened the dominance of the region in the Micro Display Market. Looking ahead, the Asia-Pacific region is expected to maintain its dominance in the Micro Display Market during the forecast period. The region's robust manufacturing capabilities, technological advancements, and growing consumer demand for high-quality displays across various industries will continue to drive the growth of the Micro Display Market in the Asia-Pacific region.

Key Market Players

Sony Corporation

Seiko Epson Corporation

EMagin Corporation

Kopin Corporation

MICROOLED Technologies

Yunnan Olightek Opto-Electronic Technology Co., Ltd

WiseChip Semiconductor Inc

Himax Technologies, Inc

RAONTECH Inc.

Microtips Technology LLC

Report Scope:

In this report, the Global Micro Display Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Micro Display Market,By Technology:

- oLiquid Crystal on Silicon (LCOS) Micro Displays

- oDigital Light Processing (DLP) Micro Displays

- oOrganic Light-Emitting Diode (OLED) Micro Displays

- oLiquid Crystal Display (LCD) Micro Displays

- oMicro LED Displays

Micro Display Market,By Display Size:

- oSmall Micro Displays

- oMedium Micro Displays

- oLarge Micro Displays

Micro Display Market,By End-User:

- oHealthcare

- oAutomotive

- oAerospace and Defense

- oConsumer Electronics

- oIndustrial and Manufacturing

- oEntertainment and Gaming

- oEducation and Training

Micro Display Market, By Region:

- oNorth America

United States

Canada

Mexico

oEurope

France

United Kingdom

Italy

Germany

Spain

oAsia-Pacific

China

India

Japan

Australia

South Korea

oSouth America

Brazil

Argentina

Colombia

oMiddle East Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Micro Display Market.

Available Customizations:

Global Micro Display Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1.SERVICE OVERVIEW

- 1.1.Market Definition
- 1.2.Scope of the Market
 - 1.2.1.Markets Covered
 - 1.2.2.Years Considered for Study
 - 1.2.3.Key Market Segmentations

2.RESEARCH METHODOLOGY

- 2.1.Objective of the Study
- 2.2.Baseline Methodology
- 2.3.Formulation of the Scope
- 2.4.Assumptions and Limitations
- 2.5.Types of Research
 - 2.5.1.Secondary Research
 - 2.5.2.Primary Research
- 2.6.Approach for the Market Study
 - 2.6.1.The Bottom-Up Approach
 - 2.6.2.The Top-Down Approach
- 2.7.Methodology Followed for Calculation of Market Size Market Shares
- 2.8.Forecasting Methodology
 - 2.8.1.Data Triangulation Validation

3.EXECUTIVE SUMMARY

4.VOICE OF CUSTOMER

5.GLOBAL MICRO DISPLAY

6.GLOBAL MICRO DISPLAY MARKET OUTLOOK

- 6.1.Market Size Forecast
 - 6.1.1.By Value
- 6.2.Market Share Forecast
 - 6.2.1.By Technology (Liquid Crystal on Silicon (LCOS) Micro Displays, Digital Light Processing (DLP) Micro Displays, Organic Light-Emitting Diode (OLED) Micro Displays,

Liquid Crystal Display (LCD) Micro Displays, Micro LED Displays)

6.2.2.By Display Size (Small Micro Displays, Medium Micro Displays, Large Micro Displays)

6.2.3.By End-User (Healthcare, Automotive, Aerospace and Defense, Consumer Electronics, Industrial and Manufacturing, Entertainment and Gaming, Education and Training)

6.2.4.By Region

6.3.By Company (2023)

6.4.Market Map

7.NORTH AMERICA MICRO DISPLAY MARKET OUTLOOK

7.1.Market Size Forecast

7.1.1.By Value

7.2.Market Share Forecast

7.2.1.By Technology

7.2.2.By Display Size

7.2.3.By End-User

7.2.4.By Country

7.3.North America: Country Analysis

7.3.1.United States Micro Display Market Outlook

7.3.1.1.Market Size Forecast

7.3.1.1.1.By Value

7.3.1.2.Market Share Forecast

7.3.1.2.1.By Technology

7.3.1.2.2.By Display Size

7.3.1.2.3.By End-User

7.3.2.Canada Micro Display Market Outlook

7.3.2.1.Market Size Forecast

7.3.2.1.1.By Value

7.3.2.2.Market Share Forecast

7.3.2.2.1.By Technology

7.3.2.2.2.By Display Size

7.3.2.2.3.By End-User

7.3.3.Mexico Micro Display Market Outlook

7.3.3.1.Market Size Forecast

7.3.3.1.1.By Value

7.3.3.2.Market Share Forecast

7.3.3.2.1.By Technology

7.3.3.2.2.By Display Size

7.3.3.2.3.By End-User

8.EUROPE MICRO DISPLAY MARKET OUTLOOK

8.1.Market Size Forecast

8.1.1.By Value

8.2.Market Share Forecast

8.2.1.By Technology

8.2.2.By Display Size

8.2.3.By End-User

8.2.4.By Country

8.3.Europe: Country Analysis

8.3.1.Germany Micro Display Market Outlook

8.3.1.1.Market Size Forecast

8.3.1.1.1.By Value

8.3.1.2.Market Share Forecast

8.3.1.2.1.By Technology

8.3.1.2.2.By Display Size

8.3.1.2.3.By End-User

8.3.2.United Kingdom Micro Display Market Outlook

8.3.2.1.Market Size Forecast

8.3.2.1.1.By Value

8.3.2.2.Market Share Forecast

8.3.2.2.1.By Technology

8.3.2.2.2.By Display Size

8.3.2.2.3.By End-User

8.3.3.Italy Micro Display Market Outlook

8.3.3.1.Market Size Forecast

8.3.3.1.1.By Value

8.3.3.2.Market Share Forecast

8.3.3.2.1.By Technology

8.3.3.2.2.By Display Size

8.3.3.2.3.By End-User

8.3.4.France Micro Display Market Outlook

8.3.4.1.Market Size Forecast

8.3.4.1.1.By Value

8.3.4.2.Market Share Forecast

8.3.4.2.1.By Technology

- 8.3.4.2.2.By Display Size
- 8.3.4.2.3.By End-User
- 8.3.5.Spain Micro Display Market Outlook
 - 8.3.5.1.Market Size Forecast
 - 8.3.5.1.1.By Value
 - 8.3.5.2.Market Share Forecast
 - 8.3.5.2.1.By Technology
 - 8.3.5.2.2.By Display Size
 - 8.3.5.2.3.By End-User

9.ASIA-PACIFIC MICRO DISPLAY MARKET OUTLOOK

- 9.1.Market Size Forecast
 - 9.1.1.By Value
- 9.2.Market Share Forecast
 - 9.2.1.By Technology
 - 9.2.2.By Display Size
 - 9.2.3.By End-User
 - 9.2.4.By Country
- 9.3.Asia-Pacific: Country Analysis
 - 9.3.1.China Micro Display Market Outlook
 - 9.3.1.1.Market Size Forecast
 - 9.3.1.1.1.By Value
 - 9.3.1.2.Market Share Forecast
 - 9.3.1.2.1.By Technology
 - 9.3.1.2.2.By Display Size
 - 9.3.1.2.3.By End-User
 - 9.3.2.India Micro Display Market Outlook
 - 9.3.2.1.Market Size Forecast
 - 9.3.2.1.1.By Value
 - 9.3.2.2.Market Share Forecast
 - 9.3.2.2.1.By Technology
 - 9.3.2.2.2.By Display Size
 - 9.3.2.2.3.By End-User
 - 9.3.3.Japan Micro Display Market Outlook
 - 9.3.3.1.Market Size Forecast
 - 9.3.3.1.1.By Value
 - 9.3.3.2.Market Share Forecast
 - 9.3.3.2.1.By Technology

- 9.3.3.2.2.By Display Size
- 9.3.3.2.3.By End-User
- 9.3.4.South Korea Micro Display Market Outlook
 - 9.3.4.1.Market Size Forecast
 - 9.3.4.1.1.By Value
 - 9.3.4.2.Market Share Forecast
 - 9.3.4.2.1.By Technology
 - 9.3.4.2.2.By Display Size
 - 9.3.4.2.3.By End-User
- 9.3.5.Australia Micro Display Market Outlook
 - 9.3.5.1.Market Size Forecast
 - 9.3.5.1.1.By Value
 - 9.3.5.2.Market Share Forecast
 - 9.3.5.2.1.By Technology
 - 9.3.5.2.2.By Display Size
 - 9.3.5.2.3.By End-User

10.SOUTH AMERICA MICRO DISPLAY MARKET OUTLOOK

- 10.1.Market Size Forecast
 - 10.1.1.By Value
- 10.2.Market Share Forecast
 - 10.2.1.By Technology
 - 10.2.2.By Display Size
 - 10.2.3.By End-User
 - 10.2.4.By Country
- 10.3.South America: Country Analysis
 - 10.3.1.Brazil Micro Display Market Outlook
 - 10.3.1.1.Market Size Forecast
 - 10.3.1.1.1.By Value
 - 10.3.1.2.Market Share Forecast
 - 10.3.1.2.1.By Technology
 - 10.3.1.2.2.By Display Size
 - 10.3.1.2.3.By End-User
 - 10.3.2.Argentina Micro Display Market Outlook
 - 10.3.2.1.Market Size Forecast
 - 10.3.2.1.1.By Value
 - 10.3.2.2.Market Share Forecast
 - 10.3.2.2.1.By Technology

- 10.3.2.2.2.By Display Size
- 10.3.2.2.3.By End-User
- 10.3.3.Colombia Micro Display Market Outlook
 - 10.3.3.1.Market Size Forecast
 - 10.3.3.1.1.By Value
 - 10.3.3.2.Market Share Forecast
 - 10.3.3.2.1.By Technology
 - 10.3.3.2.2.By Display Size
 - 10.3.3.2.3.By End-User

11.MIDDLE EAST AND AFRICA MICRO DISPLAY MARKET OUTLOOK

- 11.1.Market Size Forecast
 - 11.1.1.By Value
- 11.2.Market Share Forecast
 - 11.2.1.By Technology
 - 11.2.2.By Display Size
 - 11.2.3.By End-User
 - 11.2.4.By Country
- 11.3.MEA: Country Analysis
 - 11.3.1.South Africa Micro Display Market Outlook
 - 11.3.1.1.Market Size Forecast
 - 11.3.1.1.1.By Value
 - 11.3.1.2.Market Share Forecast
 - 11.3.1.2.1.By Technology
 - 11.3.1.2.2.By Display Size
 - 11.3.1.2.3.By End-User
 - 11.3.2.Saudi Arabia Micro Display Market Outlook
 - 11.3.2.1.Market Size Forecast
 - 11.3.2.1.1.By Value
 - 11.3.2.2.Market Share Forecast
 - 11.3.2.2.1.By Technology
 - 11.3.2.2.2.By Display Size
 - 11.3.2.2.3.By End-User
 - 11.3.3.UAE Micro Display Market Outlook
 - 11.3.3.1.Market Size Forecast
 - 11.3.3.1.1.By Value
 - 11.3.3.2.Market Share Forecast
 - 11.3.3.2.1.By Technology

- 11.3.3.2.2.By Display Size
- 11.3.3.2.3.By End-User
- 11.3.4.Kuwait Micro Display Market Outlook
 - 11.3.4.1.Market Size Forecast
 - 11.3.4.1.1.By Value
 - 11.3.4.2.Market Share Forecast
 - 11.3.4.2.1.By Technology
 - 11.3.4.2.2.By Display Size
 - 11.3.4.2.3.By End-User
- 11.3.5.Turkey Micro Display Market Outlook
 - 11.3.5.1.Market Size Forecast
 - 11.3.5.1.1.By Value
 - 11.3.5.2.Market Share Forecast
 - 11.3.5.2.1.By Technology
 - 11.3.5.2.2.By Display Size
 - 11.3.5.2.3.By End-User
- 11.3.6.Egypt Micro Display Market Outlook
 - 11.3.6.1.Market Size Forecast
 - 11.3.6.1.1.By Value
 - 11.3.6.2.Market Share Forecast
 - 11.3.6.2.1.By Technology
 - 11.3.6.2.2.By Display Size
 - 11.3.6.2.3.By End-User

12.MARKET DYNAMICS

- 12.1.Drivers
- 12.2.Challenges

13.MARKET TRENDS DEVELOPMENTS

14.COMPANY PROFILES

- 14.1.Sony Corporation
 - 14.1.1.Business Overview
 - 14.1.2.Key Revenue and Financials
 - 14.1.3.Recent Developments
 - 14.1.4.Key Personnel/Key Contact Person
 - 14.1.5.Key Product/Services Offered

14.2. Seiko Epson Corporation

14.2.1. Business Overview

14.2.2. Key Revenue and Financials

14.2.3. Recent Developments

14.2.4. Key Personnel/Key Contact Person

14.2.5. Key Product/Services Offered

14.3. EMagin Corporation

14.3.1. Business Overview

14.3.2. Key Revenue and Financials

14.3.3. Recent Developments

14.3.4. Key Personnel/Key Contact Person

14.3.5. Key Product/Services Offered

14.4. Kopin Corporation

14.4.1. Business Overview

14.4.2. Key Revenue and Financials

14.4.3. Recent Developments

14.4.4. Key Personnel/Key Contact Person

14.4.5. Key Product/Services Offered

14.5. MICROOLED Technologies

14.5.1. Business Overview

14.5.2. Key Revenue and Financials

14.5.3. Recent Developments

14.5.4. Key Personnel/Key Contact Person

14.5.5. Key Product/Services Offered

14.6. RAONTECH Inc.

14.6.1. Business Overview

14.6.2. Key Revenue and Financials

14.6.3. Recent Developments

14.6.4. Key Personnel/Key Contact Person

14.6.5. Key Product/Services Offered

14.7. YUNNAN OLIGHTEK OPTO-ELECTRONIC TECHNOLOGY CO., LTD

14.7.1. Business Overview

14.7.2. Key Revenue and Financials

14.7.3. Recent Developments

14.7.4. Key Personnel/Key Contact Person

14.7.5. Key Product/Services Offered

14.8. WiseChip Semiconductor Inc

14.8.1. Business Overview

14.8.2. Key Revenue and Financials

- 14.8.3.Recent Developments
- 14.8.4.Key Personnel/Key Contact Person
- 14.8.5.Key Product/Services Offered
- 14.9.Himax Technologies, Inc
 - 14.9.1.Business Overview
 - 14.9.2.Key Revenue and Financials
 - 14.9.3.Recent Developments
 - 14.9.4.Key Personnel/Key Contact Person
 - 14.9.5.Key Product/Services Offered
- 14.10.Microtips Technology LLC
 - 14.10.1.Business Overview
 - 14.10.2.Key Revenue and Financials
 - 14.10.3.Recent Developments
 - 14.10.4.Key Personnel/Key Contact Person
 - 14.10.5.Key Product/Services Offered

15.STRATEGIC RECOMMENDATIONS

16.ABOUT US DISCLAIMER

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