

Global Silicon-based Micro-LED Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon-based Micro-LED market size is expected to reach \$ 824 million by 2032, rising at a market growth of 39.4% CAGR during the forecast period (2026-2032).

Silicon-based LED technology is a technique for generating countless micrometer-sized LEDs on a silicon substrate. Due to its superior brightness, this technology is considered the future of microdisplays for VR, XR, and MR devices. Current blue quantum dot silicon-based LED technology involves forming a blue LED emitting layer on a CMOS panel or its back surface, then covering it with different quantum dot materials to convert blue light into red and green light; microlenses are placed at the top of the pixels to enhance brightness. Another three-color combining technology uses independent silicon-based R, G, and B emitting diodes arranged perpendicularly to each other, but this technology requires waveguide elements to control the direction of light. The ideal approach is a monolithic silicon-based LED panel, where the R, G, and B emitting diodes can be deposited together on the surface of a CMOS or glass substrate, but this requires high-temperature epitaxial growth processes. Silicon-based Micro-LED is a type of display and light source technology that fabricates micro-light-emitting diodes (Micro-LEDs) on a silicon substrate. Unlike traditional LED manufacturing processes using sapphire and silicon wafers, silicon-based micro-LEDs can utilize existing silicon semiconductor processing techniques to achieve high-integration co-manufacturing with CMOS circuits, improving pixel-level control precision, yield, and reliability. Silicon-based micro-LEDs offer advantages such as extremely high brightness, wide color gamut, and low power consumption, and are considered a core technology platform for next-generation micro-displays and displays, particularly suitable for high-end display applications such as AR/VR near-eye displays, smart wearable devices, automotive head-up displays (HUDs), head-mounted displays, and portable projectors. This technology reduces process differences between pixels while

leveraging silicon processes to improve photoelectric conversion efficiency and manufacturing consistency. Silicon-based micro-LEDs represent a crucial direction for the integration of micro-display technology and semiconductor technology. In 2025, global shipments of silicon-based Micro-LEDs are projected to reach approximately 134,000 units, with an average price of approximately US\$273.29 per unit and a gross margin of approximately 17.93%. Once fully operational, companies can achieve a monthly production capacity of 150,000 units.

As display technology evolves towards higher brightness, lower power consumption, ultra-high resolution, and smaller size, silicon-based micro-LEDs, as one of the core directions of next-generation display technology, are gaining widespread attention from the industry chain and capital levels. Traditional display technologies are gradually approaching physical limits in terms of brightness, response speed, and energy efficiency, while silicon-based micro-LEDs, with their extremely high pixel control capabilities, excellent color gamut performance, and extremely low power consumption, offer differentiated competitiveness for niche markets such as AR/VR near-eye displays, smart wearable devices, head-up displays, and automotive HUDs. Furthermore, silicon-based micro-LEDs can utilize existing silicon processing infrastructure and be directly integrated with CMOS control circuits, offering potential advantages in manufacturing efficiency and yield, attracting deep investment from production line and manufacturing equipment manufacturers. These advantages have enabled silicon-based micro-LEDs to gradually rise to become a key technological pillar in the display industry's development blueprint.

Technological innovation is one of the key driving forces behind the rapid development of the market. The manufacturing of silicon-based micro-LEDs integrates advanced wafer-level processing, precision transfer technology, wavelength conversion, and pixel-level drive integration, enabling high-density pixel arrays to achieve high brightness and high contrast output in a more compact space. Industry participants have made continuous breakthroughs in heterogeneous integration, quantum dot color conversion, and silicon substrate process optimization, effectively driving product performance iteration and improving industrial maturity. Especially against the backdrop of an increasingly active AR/VR device, smart glasses, and wearable device market, display demands are placing higher requirements on power consumption control and efficient display output. These demands perfectly align with the technical characteristics of silicon-based micro-LEDs, accelerating the penetration rate growth in the end-market.

Despite the broad market prospects, silicon-based micro-LED technology and market evolution still face key challenges. First, the manufacturing process of micro-LEDs is

extremely complex. The transfer and precise arrangement of tiny pixels place extremely high demands on production equipment and process control, leading to low yields and high manufacturing costs in the early stages. Balancing pixel density, silicon-based driver integration complexity, and cost in the silicon-based integration model is a problem that the industry chain must overcome. Second, the current ecosystem of silicon-based micro-LEDs is still immature. Collaboration among material suppliers, equipment suppliers, module manufacturers, and end-user brands needs to be strengthened, and supply chain efficiency has a significant impact on cost and delivery cycle. Furthermore, although the price range is gradually decreasing, silicon-based micro-LEDs still have a price disadvantage compared to mature OLED and LCD products, which to some extent inhibits the acceleration of the large-scale replacement trend. Downstream market demand for silicon-based micro-LEDs is showing a diversified and high-growth trend. In the consumer electronics sector, the demand for high-brightness, high-energy-efficiency micro-displays in AR/VR headsets and smart wearable devices continues to rise, with manufacturers deploying silicon-based micro-LED display engines as a core technology for future product differentiation. In the automotive electronics sector, the requirements for clarity, durability, and sunlight visibility performance of HUDs and central control displays are constantly increasing, making silicon-based micro-LEDs a focus of attention due to their high contrast and brightness advantages. In the industrial and medical display sectors, power consumption and brightness requirements are also driving the adoption of some high-precision display terminals. It is expected that in the next few years, with continuous process optimization and the emergence of economies of scale, silicon-based micro-LEDs will achieve commercialization and revenue growth in more segmented downstream scenarios.

This report studies the global Silicon-based Micro-LED production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon-based Micro-LED and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicon-based Micro-LED that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon-based Micro-LED total production and demand, 2021-2032, (K Pcs)
Global Silicon-based Micro-LED total production value, 2021-2032, (USD Million)
Global Silicon-based Micro-LED production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Silicon-based Micro-LED consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Silicon-based Micro-LED domestic production, consumption, key domestic manufacturers and share

Global Silicon-based Micro-LED production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Silicon-based Micro-LED production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Silicon-based Micro-LED production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Silicon-based Micro-LED market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Leyard, Kopin, Samsung?eMagin?, Sony, LG, Mojo Vision, Raxium?Google?, MICLEDI Microdisplays, Plessey Semiconductors, BOE, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Silicon-based Micro-LED market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Silicon-based Micro-LED Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon-based Micro-LED Market, Segmentation by Type:

Monochrome Micro LED

Full-color Micro LED

Global Silicon-based Micro-LED Market, Segmentation by Power:

Low-power LED Chips

High-power LED Chips

Global Silicon-based Micro-LED Market, Segmentation by Inch:

8-inch Silicon Substrate

12-inch Silicon Substrate

Global Silicon-based Micro-LED Market, Segmentation by Application:

Consumer Electronics (XR/Wearable Devices)

Automotive Displays

Medical

Industrial

Other

Companies Profiled:

Leyard

Kopin

Samsung?eMagin?

Sony

LG

Mojo Vision

Raxium?Google?

MICLEDI Microdisplays

Plessey Semiconductors

BOE

Xi'an Saffles Semiconductor Technology Co., Ltd.

Xiamen Tianma Display Technology Co., Ltd.

Xiamen Extremely PQ Display Technology Co., Ltd.

Foshan NationStar Optoelectronics Co., Ltd.

Jade Bird Display Co., Ltd.

Raysolve Optoelectronics (Suzhou) Company Limited

Shenzhen STD Technology Co., Ltd.

Joinwin Micro-Led Technology Co., Ltd.

Yancheng Hongshi Intelligent technology co., LTD.

HKC

GZOT

Nanjing Digital Optics Technology Co., Ltd

Nanjing SmartVision Electronics Co., Ltd.

Innovision Technology

LEKIN

Yanshan Technology

Starksemi Semiconductor (Wuhan) Co., Ltd.

Jingneng Optoelectronics Co., Ltd.

Key Questions Answered:

1. How big is the global Silicon-based Micro-LED market?
2. What is the demand of the global Silicon-based Micro-LED market?
3. What is the year over year growth of the global Silicon-based Micro-LED market?
4. What is the production and production value of the global Silicon-based Micro-LED market?
5. Who are the key producers in the global Silicon-based Micro-LED market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Silicon-based Micro-LED Introduction
- 1.2 World Silicon-based Micro-LED Supply & Forecast
 - 1.2.1 World Silicon-based Micro-LED Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Silicon-based Micro-LED Production (2021-2032)
 - 1.2.3 World Silicon-based Micro-LED Pricing Trends (2021-2032)
- 1.3 World Silicon-based Micro-LED Production by Region (Based on Production Site)
 - 1.3.1 World Silicon-based Micro-LED Production Value by Region (2021-2032)
 - 1.3.2 World Silicon-based Micro-LED Production by Region (2021-2032)
 - 1.3.3 World Silicon-based Micro-LED Average Price by Region (2021-2032)
 - 1.3.4 North America Silicon-based Micro-LED Production (2021-2032)
 - 1.3.5 Europe Silicon-based Micro-LED Production (2021-2032)
 - 1.3.6 China Silicon-based Micro-LED Production (2021-2032)
 - 1.3.7 Japan Silicon-based Micro-LED Production (2021-2032)
 - 1.3.8 South Korea Silicon-based Micro-LED Production (2021-2032)
 - 1.3.9 Southeast Asia Silicon-based Micro-LED Production (2021-2032)
 - 1.3.10 China Taiwan Silicon-based Micro-LED Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Silicon-based Micro-LED Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Silicon-based Micro-LED Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Silicon-based Micro-LED Demand (2021-2032)
- 2.2 World Silicon-based Micro-LED Consumption by Region
 - 2.2.1 World Silicon-based Micro-LED Consumption by Region (2021-2026)
 - 2.2.2 World Silicon-based Micro-LED Consumption Forecast by Region (2027-2032)
- 2.3 United States Silicon-based Micro-LED Consumption (2021-2032)
- 2.4 China Silicon-based Micro-LED Consumption (2021-2032)
- 2.5 Europe Silicon-based Micro-LED Consumption (2021-2032)
- 2.6 Japan Silicon-based Micro-LED Consumption (2021-2032)
- 2.7 South Korea Silicon-based Micro-LED Consumption (2021-2032)
- 2.8 ASEAN Silicon-based Micro-LED Consumption (2021-2032)
- 2.9 India Silicon-based Micro-LED Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Silicon-based Micro-LED Production Value by Manufacturer (2021-2026)
- 3.2 World Silicon-based Micro-LED Production by Manufacturer (2021-2026)
- 3.3 World Silicon-based Micro-LED Average Price by Manufacturer (2021-2026)
- 3.4 Silicon-based Micro-LED Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Silicon-based Micro-LED Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Silicon-based Micro-LED in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Silicon-based Micro-LED in 2025
- 3.6 Silicon-based Micro-LED Market: Overall Company Footprint Analysis
 - 3.6.1 Silicon-based Micro-LED Market: Region Footprint
 - 3.6.2 Silicon-based Micro-LED Market: Company Product Type Footprint
 - 3.6.3 Silicon-based Micro-LED Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Silicon-based Micro-LED Production Value Comparison
 - 4.1.1 United States VS China: Silicon-based Micro-LED Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Silicon-based Micro-LED Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Silicon-based Micro-LED Production Comparison
 - 4.2.1 United States VS China: Silicon-based Micro-LED Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Silicon-based Micro-LED Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Silicon-based Micro-LED Consumption Comparison
 - 4.3.1 United States VS China: Silicon-based Micro-LED Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Silicon-based Micro-LED Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Silicon-based Micro-LED Manufacturers and Market Share,

2021-2026

4.4.1 United States Based Silicon-based Micro-LED Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Silicon-based Micro-LED Production Value (2021-2026)

4.4.3 United States Based Manufacturers Silicon-based Micro-LED Production (2021-2026)

4.5 China Based Silicon-based Micro-LED Manufacturers and Market Share

4.5.1 China Based Silicon-based Micro-LED Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Silicon-based Micro-LED Production Value (2021-2026)

4.5.3 China Based Manufacturers Silicon-based Micro-LED Production (2021-2026)

4.6 Rest of World Based Silicon-based Micro-LED Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Silicon-based Micro-LED Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Silicon-based Micro-LED Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Silicon-based Micro-LED Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Silicon-based Micro-LED Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Monochrome Micro LED

5.2.2 Full-color Micro LED

5.3 Market Segment by Type

5.3.1 World Silicon-based Micro-LED Production by Type (2021-2032)

5.3.2 World Silicon-based Micro-LED Production Value by Type (2021-2032)

5.3.3 World Silicon-based Micro-LED Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY POWER

6.1 World Silicon-based Micro-LED Market Size Overview by Power: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Power

- 6.2.1 Low-power LED Chips
- 6.2.2 High-power LED Chips
- 6.3 Market Segment by Power
 - 6.3.1 World Silicon-based Micro-LED Production by Power (2021-2032)
 - 6.3.2 World Silicon-based Micro-LED Production Value by Power (2021-2032)
 - 6.3.3 World Silicon-based Micro-LED Average Price by Power (2021-2032)

7 MARKET ANALYSIS BY INCH

- 7.1 World Silicon-based Micro-LED Market Size Overview by Inch: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Inch
 - 7.2.1 8-inch Silicon Substrate
 - 7.2.2 12-inch Silicon Substrate
- 7.3 Market Segment by Inch
 - 7.3.1 World Silicon-based Micro-LED Production by Inch (2021-2032)
 - 7.3.2 World Silicon-based Micro-LED Production Value by Inch (2021-2032)
 - 7.3.3 World Silicon-based Micro-LED Average Price by Inch (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Silicon-based Micro-LED Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Consumer Electronics (XR/Wearable Devices)
 - 8.2.2 Automotive Displays
 - 8.2.3 Medical
 - 8.2.4 Industrial
 - 8.2.5 Other
- 8.3 Market Segment by Application
 - 8.3.1 World Silicon-based Micro-LED Production by Application (2021-2032)
 - 8.3.2 World Silicon-based Micro-LED Production Value by Application (2021-2032)
 - 8.3.3 World Silicon-based Micro-LED Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Leyard
 - 9.1.1 Leyard Details
 - 9.1.2 Leyard Major Business

- 9.1.3 Leyard Silicon-based Micro-LED Product and Services
- 9.1.4 Leyard Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Leyard Recent Developments/Updates
- 9.1.6 Leyard Competitive Strengths & Weaknesses
- 9.2 Kopin
 - 9.2.1 Kopin Details
 - 9.2.2 Kopin Major Business
 - 9.2.3 Kopin Silicon-based Micro-LED Product and Services
 - 9.2.4 Kopin Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Kopin Recent Developments/Updates
 - 9.2.6 Kopin Competitive Strengths & Weaknesses
- 9.3 Samsung?eMagin?
 - 9.3.1 Samsung?eMagin? Details
 - 9.3.2 Samsung?eMagin? Major Business
 - 9.3.3 Samsung?eMagin? Silicon-based Micro-LED Product and Services
 - 9.3.4 Samsung?eMagin? Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Samsung?eMagin? Recent Developments/Updates
 - 9.3.6 Samsung?eMagin? Competitive Strengths & Weaknesses
- 9.4 Sony
 - 9.4.1 Sony Details
 - 9.4.2 Sony Major Business
 - 9.4.3 Sony Silicon-based Micro-LED Product and Services
 - 9.4.4 Sony Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Sony Recent Developments/Updates
 - 9.4.6 Sony Competitive Strengths & Weaknesses
- 9.5 LG
 - 9.5.1 LG Details
 - 9.5.2 LG Major Business
 - 9.5.3 LG Silicon-based Micro-LED Product and Services
 - 9.5.4 LG Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 LG Recent Developments/Updates
 - 9.5.6 LG Competitive Strengths & Weaknesses
- 9.6 Mojo Vision
 - 9.6.1 Mojo Vision Details

- 9.6.2 Mojo Vision Major Business
- 9.6.3 Mojo Vision Silicon-based Micro-LED Product and Services
- 9.6.4 Mojo Vision Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Mojo Vision Recent Developments/Updates
- 9.6.6 Mojo Vision Competitive Strengths & Weaknesses
- 9.7 Raxium?Google?
- 9.7.1 Raxium?Google? Details
- 9.7.2 Raxium?Google? Major Business
- 9.7.3 Raxium?Google? Silicon-based Micro-LED Product and Services
- 9.7.4 Raxium?Google? Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Raxium?Google? Recent Developments/Updates
- 9.7.6 Raxium?Google? Competitive Strengths & Weaknesses
- 9.8 MICLEDI Microdisplays
- 9.8.1 MICLEDI Microdisplays Details
- 9.8.2 MICLEDI Microdisplays Major Business
- 9.8.3 MICLEDI Microdisplays Silicon-based Micro-LED Product and Services
- 9.8.4 MICLEDI Microdisplays Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 MICLEDI Microdisplays Recent Developments/Updates
- 9.8.6 MICLEDI Microdisplays Competitive Strengths & Weaknesses
- 9.9 Plessey Semiconductors
- 9.9.1 Plessey Semiconductors Details
- 9.9.2 Plessey Semiconductors Major Business
- 9.9.3 Plessey Semiconductors Silicon-based Micro-LED Product and Services
- 9.9.4 Plessey Semiconductors Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Plessey Semiconductors Recent Developments/Updates
- 9.9.6 Plessey Semiconductors Competitive Strengths & Weaknesses
- 9.10 BOE
- 9.10.1 BOE Details
- 9.10.2 BOE Major Business
- 9.10.3 BOE Silicon-based Micro-LED Product and Services
- 9.10.4 BOE Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 BOE Recent Developments/Updates
- 9.10.6 BOE Competitive Strengths & Weaknesses
- 9.11 Xi'an Saffles Semiconductor Technology Co., Ltd.

- 9.11.1 Xi'an Saffles Semiconductor Technology Co., Ltd. Details
- 9.11.2 Xi'an Saffles Semiconductor Technology Co., Ltd. Major Business
- 9.11.3 Xi'an Saffles Semiconductor Technology Co., Ltd. Silicon-based Micro-LED Product and Services
- 9.11.4 Xi'an Saffles Semiconductor Technology Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Xi'an Saffles Semiconductor Technology Co., Ltd. Recent Developments/Updates
- 9.11.6 Xi'an Saffles Semiconductor Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.12 Xiamen Tianma Display Technology Co., Ltd.
 - 9.12.1 Xiamen Tianma Display Technology Co., Ltd. Details
 - 9.12.2 Xiamen Tianma Display Technology Co., Ltd. Major Business
 - 9.12.3 Xiamen Tianma Display Technology Co., Ltd. Silicon-based Micro-LED Product and Services
 - 9.12.4 Xiamen Tianma Display Technology Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Xiamen Tianma Display Technology Co., Ltd. Recent Developments/Updates
 - 9.12.6 Xiamen Tianma Display Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.13 Xiamen Extremely PQ Display Technology Co., Ltd.
 - 9.13.1 Xiamen Extremely PQ Display Technology Co., Ltd. Details
 - 9.13.2 Xiamen Extremely PQ Display Technology Co., Ltd. Major Business
 - 9.13.3 Xiamen Extremely PQ Display Technology Co., Ltd. Silicon-based Micro-LED Product and Services
 - 9.13.4 Xiamen Extremely PQ Display Technology Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Xiamen Extremely PQ Display Technology Co., Ltd. Recent Developments/Updates
 - 9.13.6 Xiamen Extremely PQ Display Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.14 Foshan NationStar Optoelectronics Co., Ltd.
 - 9.14.1 Foshan NationStar Optoelectronics Co., Ltd. Details
 - 9.14.2 Foshan NationStar Optoelectronics Co., Ltd. Major Business
 - 9.14.3 Foshan NationStar Optoelectronics Co., Ltd. Silicon-based Micro-LED Product and Services
 - 9.14.4 Foshan NationStar Optoelectronics Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Foshan NationStar Optoelectronics Co., Ltd. Recent Developments/Updates

9.14.6 Foshan NationStar Optoelectronics Co., Ltd. Competitive Strengths & Weaknesses

9.15 Jade Bird Display Co., Ltd.

9.15.1 Jade Bird Display Co., Ltd. Details

9.15.2 Jade Bird Display Co., Ltd. Major Business

9.15.3 Jade Bird Display Co., Ltd. Silicon-based Micro-LED Product and Services

9.15.4 Jade Bird Display Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Jade Bird Display Co., Ltd. Recent Developments/Updates

9.15.6 Jade Bird Display Co., Ltd. Competitive Strengths & Weaknesses

9.16 Raysolve Optoelectronics (Suzhou) Company Limited

9.16.1 Raysolve Optoelectronics (Suzhou) Company Limited Details

9.16.2 Raysolve Optoelectronics (Suzhou) Company Limited Major Business

9.16.3 Raysolve Optoelectronics (Suzhou) Company Limited Silicon-based Micro-LED Product and Services

9.16.4 Raysolve Optoelectronics (Suzhou) Company Limited Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Raysolve Optoelectronics (Suzhou) Company Limited Recent Developments/Updates

9.16.6 Raysolve Optoelectronics (Suzhou) Company Limited Competitive Strengths & Weaknesses

9.17 Shenzhen STD Technology Co., Ltd.

9.17.1 Shenzhen STD Technology Co., Ltd. Details

9.17.2 Shenzhen STD Technology Co., Ltd. Major Business

9.17.3 Shenzhen STD Technology Co., Ltd. Silicon-based Micro-LED Product and Services

9.17.4 Shenzhen STD Technology Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Shenzhen STD Technology Co., Ltd. Recent Developments/Updates

9.17.6 Shenzhen STD Technology Co., Ltd. Competitive Strengths & Weaknesses

9.18 Joinwin Micro-Led Technology Co., Ltd.

9.18.1 Joinwin Micro-Led Technology Co., Ltd. Details

9.18.2 Joinwin Micro-Led Technology Co., Ltd. Major Business

9.18.3 Joinwin Micro-Led Technology Co., Ltd. Silicon-based Micro-LED Product and Services

9.18.4 Joinwin Micro-Led Technology Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Joinwin Micro-Led Technology Co., Ltd. Recent Developments/Updates

9.18.6 Joinwin Micro-Led Technology Co., Ltd. Competitive Strengths & Weaknesses

9.19 Yancheng Hongshi Intelligent technology co., LTD.

9.19.1 Yancheng Hongshi Intelligent technology co., LTD. Details

9.19.2 Yancheng Hongshi Intelligent technology co., LTD. Major Business

9.19.3 Yancheng Hongshi Intelligent technology co., LTD. Silicon-based Micro-LED Product and Services

9.19.4 Yancheng Hongshi Intelligent technology co., LTD. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Yancheng Hongshi Intelligent technology co., LTD. Recent Developments/Updates

9.19.6 Yancheng Hongshi Intelligent technology co., LTD. Competitive Strengths & Weaknesses

9.20 HKC

9.20.1 HKC Details

9.20.2 HKC Major Business

9.20.3 HKC Silicon-based Micro-LED Product and Services

9.20.4 HKC Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 HKC Recent Developments/Updates

9.20.6 HKC Competitive Strengths & Weaknesses

9.21 GZOT

9.21.1 GZOT Details

9.21.2 GZOT Major Business

9.21.3 GZOT Silicon-based Micro-LED Product and Services

9.21.4 GZOT Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.21.5 GZOT Recent Developments/Updates

9.21.6 GZOT Competitive Strengths & Weaknesses

9.22 Nanjing Digital Optics Technology Co., Ltd

9.22.1 Nanjing Digital Optics Technology Co., Ltd Details

9.22.2 Nanjing Digital Optics Technology Co., Ltd Major Business

9.22.3 Nanjing Digital Optics Technology Co., Ltd Silicon-based Micro-LED Product and Services

9.22.4 Nanjing Digital Optics Technology Co., Ltd Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 Nanjing Digital Optics Technology Co., Ltd Recent Developments/Updates

9.22.6 Nanjing Digital Optics Technology Co., Ltd Competitive Strengths & Weaknesses

9.23 Nanjing SmartVision Electronics Co., Ltd.

9.23.1 Nanjing SmartVision Electronics Co., Ltd. Details

- 9.23.2 Nanjing SmartVision Electronics Co., Ltd. Major Business
- 9.23.3 Nanjing SmartVision Electronics Co., Ltd. Silicon-based Micro-LED Product and Services
- 9.23.4 Nanjing SmartVision Electronics Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.23.5 Nanjing SmartVision Electronics Co., Ltd. Recent Developments/Updates
- 9.23.6 Nanjing SmartVision Electronics Co., Ltd. Competitive Strengths & Weaknesses
- 9.24 Innovision Technology
 - 9.24.1 Innovision Technology Details
 - 9.24.2 Innovision Technology Major Business
 - 9.24.3 Innovision Technology Silicon-based Micro-LED Product and Services
 - 9.24.4 Innovision Technology Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.24.5 Innovision Technology Recent Developments/Updates
 - 9.24.6 Innovision Technology Competitive Strengths & Weaknesses
- 9.25 LEKIN
 - 9.25.1 LEKIN Details
 - 9.25.2 LEKIN Major Business
 - 9.25.3 LEKIN Silicon-based Micro-LED Product and Services
 - 9.25.4 LEKIN Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.25.5 LEKIN Recent Developments/Updates
 - 9.25.6 LEKIN Competitive Strengths & Weaknesses
- 9.26 Yanshan Technology
 - 9.26.1 Yanshan Technology Details
 - 9.26.2 Yanshan Technology Major Business
 - 9.26.3 Yanshan Technology Silicon-based Micro-LED Product and Services
 - 9.26.4 Yanshan Technology Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.26.5 Yanshan Technology Recent Developments/Updates
 - 9.26.6 Yanshan Technology Competitive Strengths & Weaknesses
- 9.27 Starksemi Semiconductor (Wuhan) Co., Ltd.
 - 9.27.1 Starksemi Semiconductor (Wuhan) Co., Ltd. Details
 - 9.27.2 Starksemi Semiconductor (Wuhan) Co., Ltd. Major Business
 - 9.27.3 Starksemi Semiconductor (Wuhan) Co., Ltd. Silicon-based Micro-LED Product and Services
 - 9.27.4 Starksemi Semiconductor (Wuhan) Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.27.5 Starksemi Semiconductor (Wuhan) Co., Ltd. Recent Developments/Updates

9.27.6 Starksemi Semiconductor (Wuhan) Co., Ltd. Competitive Strengths & Weaknesses

9.28 Jingneng Optoelectronics Co., Ltd.

9.28.1 Jingneng Optoelectronics Co., Ltd. Details

9.28.2 Jingneng Optoelectronics Co., Ltd. Major Business

9.28.3 Jingneng Optoelectronics Co., Ltd. Silicon-based Micro-LED Product and Services

9.28.4 Jingneng Optoelectronics Co., Ltd. Silicon-based Micro-LED Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.28.5 Jingneng Optoelectronics Co., Ltd. Recent Developments/Updates

9.28.6 Jingneng Optoelectronics Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Silicon-based Micro-LED Industry Chain

10.2 Silicon-based Micro-LED Upstream Analysis

10.2.1 Silicon-based Micro-LED Core Raw Materials

10.2.2 Main Manufacturers of Silicon-based Micro-LED Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Silicon-based Micro-LED Production Mode

10.6 Silicon-based Micro-LED Procurement Model

10.7 Silicon-based Micro-LED Industry Sales Model and Sales Channels

10.7.1 Silicon-based Micro-LED Sales Model

10.7.2 Silicon-based Micro-LED Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Silicon-based Micro-LED Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Silicon-based Micro-LED Production Value by Region (2021-2026) & (USD Million)

Table 3. World Silicon-based Micro-LED Production Value by Region (2027-2032) & (USD Million)

Table 4. World Silicon-based Micro-LED Production Value Market Share by Region (2021-2026)

Table 5. World Silicon-based Micro-LED Production Value Market Share by Region (2027-2032)

Table 6. World Silicon-based Micro-LED Production by Region (2021-2026) & (K Pcs)

Table 7. World Silicon-based Micro-LED Production by Region (2027-2032) & (K Pcs)

Table 8. World Silicon-based Micro-LED Production Market Share by Region (2021-2026)

Table 9. World Silicon-based Micro-LED Production Market Share by Region (2027-2032)

Table 10. World Silicon-based Micro-LED Average Price by Region (2021-2026) & (US\$/Pcs)

Table 11. World Silicon-based Micro-LED Average Price by Region (2027-2032) & (US\$/Pcs)

Table 12. Silicon-based Micro-LED Major Market Trends

Table 13. World Silicon-based Micro-LED Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World Silicon-based Micro-LED Consumption by Region (2021-2026) & (K Pcs)

Table 15. World Silicon-based Micro-LED Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World Silicon-based Micro-LED Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Silicon-based Micro-LED Producers in 2025

Table 18. World Silicon-based Micro-LED Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key Silicon-based Micro-LED Producers in 2025

Table 20. World Silicon-based Micro-LED Average Price by Manufacturer (2021-2026)

& (US\$/Pcs)

Table 21. Global Silicon-based Micro-LED Company Evaluation Quadrant

Table 22. World Silicon-based Micro-LED Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Silicon-based Micro-LED Production Site of Key Manufacturer

Table 24. Silicon-based Micro-LED Market: Company Product Type Footprint

Table 25. Silicon-based Micro-LED Market: Company Product Application Footprint

Table 26. Silicon-based Micro-LED Competitive Factors

Table 27. Silicon-based Micro-LED New Entrant and Capacity Expansion Plans

Table 28. Silicon-based Micro-LED Mergers & Acquisitions Activity

Table 29. United States VS China Silicon-based Micro-LED Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Silicon-based Micro-LED Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China Silicon-based Micro-LED Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Silicon-based Micro-LED Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Silicon-based Micro-LED Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Silicon-based Micro-LED Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Silicon-based Micro-LED Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Silicon-based Micro-LED Production Market Share (2021-2026)

Table 37. China Based Silicon-based Micro-LED Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Silicon-based Micro-LED Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Silicon-based Micro-LED Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Silicon-based Micro-LED Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Silicon-based Micro-LED Production Market Share (2021-2026)

Table 42. Rest of World Based Silicon-based Micro-LED Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Silicon-based Micro-LED Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Silicon-based Micro-LED Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Silicon-based Micro-LED Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Silicon-based Micro-LED Production Market Share (2021-2026)

Table 47. World Silicon-based Micro-LED Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Silicon-based Micro-LED Production by Type (2021-2026) & (K Pcs)

Table 49. World Silicon-based Micro-LED Production by Type (2027-2032) & (K Pcs)

Table 50. World Silicon-based Micro-LED Production Value by Type (2021-2026) & (USD Million)

Table 51. World Silicon-based Micro-LED Production Value by Type (2027-2032) & (USD Million)

Table 52. World Silicon-based Micro-LED Average Price by Type (2021-2026) & (US\$/Pcs)

Table 53. World Silicon-based Micro-LED Average Price by Type (2027-2032) & (US\$/Pcs)

Table 54. World Silicon-based Micro-LED Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 55. World Silicon-based Micro-LED Production by Power (2021-2026) & (K Pcs)

Table 56. World Silicon-based Micro-LED Production by Power (2027-2032) & (K Pcs)

Table 57. World Silicon-based Micro-LED Production Value by Power (2021-2026) & (USD Million)

Table 58. World Silicon-based Micro-LED Production Value by Power (2027-2032) & (USD Million)

Table 59. World Silicon-based Micro-LED Average Price by Power (2021-2026) & (US\$/Pcs)

Table 60. World Silicon-based Micro-LED Average Price by Power (2027-2032) & (US\$/Pcs)

Table 61. World Silicon-based Micro-LED Production Value by Inch, (USD Million), 2021 & 2025 & 2032

Table 62. World Silicon-based Micro-LED Production by Inch (2021-2026) & (K Pcs)

Table 63. World Silicon-based Micro-LED Production by Inch (2027-2032) & (K Pcs)

Table 64. World Silicon-based Micro-LED Production Value by Inch (2021-2026) & (USD Million)

Table 65. World Silicon-based Micro-LED Production Value by Inch (2027-2032) &

(USD Million)

Table 66. World Silicon-based Micro-LED Average Price by Inch (2021-2026) & (US\$/Pcs)

Table 67. World Silicon-based Micro-LED Average Price by Inch (2027-2032) & (US\$/Pcs)

Table 68. World Silicon-based Micro-LED Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Silicon-based Micro-LED Production by Application (2021-2026) & (K Pcs)

Table 70. World Silicon-based Micro-LED Production by Application (2027-2032) & (K Pcs)

Table 71. World Silicon-based Micro-LED Production Value by Application (2021-2026) & (USD Million)

Table 72. World Silicon-based Micro-LED Production Value by Application (2027-2032) & (USD Million)

Table 73. World Silicon-based Micro-LED Average Price by Application (2021-2026) & (US\$/Pcs)

Table 74. World Silicon-based Micro-LED Average Price by Application (2027-2032) & (US\$/Pcs)

Table 75. Leyard Basic Information, Manufacturing Base and Competitors

Table 76. Leyard Major Business

Table 77. Leyard Silicon-based Micro-LED Product and Services

Table 78. Leyard Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Leyard Recent Developments/Updates

Table 80. Leyard Competitive Strengths & Weaknesses

Table 81. Kopin Basic Information, Manufacturing Base and Competitors

Table 82. Kopin Major Business

Table 83. Kopin Silicon-based Micro-LED Product and Services

Table 84. Kopin Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Kopin Recent Developments/Updates

Table 86. Kopin Competitive Strengths & Weaknesses

Table 87. Samsung?eMagin? Basic Information, Manufacturing Base and Competitors

Table 88. Samsung?eMagin? Major Business

Table 89. Samsung?eMagin? Silicon-based Micro-LED Product and Services

Table 90. Samsung?eMagin? Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 91. Samsung?eMagin? Recent Developments/Updates
- Table 92. Samsung?eMagin? Competitive Strengths & Weaknesses
- Table 93. Sony Basic Information, Manufacturing Base and Competitors
- Table 94. Sony Major Business
- Table 95. Sony Silicon-based Micro-LED Product and Services
- Table 96. Sony Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Sony Recent Developments/Updates
- Table 98. Sony Competitive Strengths & Weaknesses
- Table 99. LG Basic Information, Manufacturing Base and Competitors
- Table 100. LG Major Business
- Table 101. LG Silicon-based Micro-LED Product and Services
- Table 102. LG Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. LG Recent Developments/Updates
- Table 104. LG Competitive Strengths & Weaknesses
- Table 105. Mojo Vision Basic Information, Manufacturing Base and Competitors
- Table 106. Mojo Vision Major Business
- Table 107. Mojo Vision Silicon-based Micro-LED Product and Services
- Table 108. Mojo Vision Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Mojo Vision Recent Developments/Updates
- Table 110. Mojo Vision Competitive Strengths & Weaknesses
- Table 111. Raxium?Google? Basic Information, Manufacturing Base and Competitors
- Table 112. Raxium?Google? Major Business
- Table 113. Raxium?Google? Silicon-based Micro-LED Product and Services
- Table 114. Raxium?Google? Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Raxium?Google? Recent Developments/Updates
- Table 116. Raxium?Google? Competitive Strengths & Weaknesses
- Table 117. MICLEDI Microdisplays Basic Information, Manufacturing Base and Competitors
- Table 118. MICLEDI Microdisplays Major Business
- Table 119. MICLEDI Microdisplays Silicon-based Micro-LED Product and Services
- Table 120. MICLEDI Microdisplays Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. MICLEDI Microdisplays Recent Developments/Updates

- Table 122. MICLEDI Microdisplays Competitive Strengths & Weaknesses
- Table 123. Plessey Semiconductors Basic Information, Manufacturing Base and Competitors
- Table 124. Plessey Semiconductors Major Business
- Table 125. Plessey Semiconductors Silicon-based Micro-LED Product and Services
- Table 126. Plessey Semiconductors Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Plessey Semiconductors Recent Developments/Updates
- Table 128. Plessey Semiconductors Competitive Strengths & Weaknesses
- Table 129. BOE Basic Information, Manufacturing Base and Competitors
- Table 130. BOE Major Business
- Table 131. BOE Silicon-based Micro-LED Product and Services
- Table 132. BOE Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. BOE Recent Developments/Updates
- Table 134. BOE Competitive Strengths & Weaknesses
- Table 135. Xi'an Saffles Semiconductor Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 136. Xi'an Saffles Semiconductor Technology Co., Ltd. Major Business
- Table 137. Xi'an Saffles Semiconductor Technology Co., Ltd. Silicon-based Micro-LED Product and Services
- Table 138. Xi'an Saffles Semiconductor Technology Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Xi'an Saffles Semiconductor Technology Co., Ltd. Recent Developments/Updates
- Table 140. Xi'an Saffles Semiconductor Technology Co., Ltd. Competitive Strengths & Weaknesses
- Table 141. Xiamen Tianma Display Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 142. Xiamen Tianma Display Technology Co., Ltd. Major Business
- Table 143. Xiamen Tianma Display Technology Co., Ltd. Silicon-based Micro-LED Product and Services
- Table 144. Xiamen Tianma Display Technology Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Xiamen Tianma Display Technology Co., Ltd. Recent Developments/Updates

Table 146. Xiamen Tianma Display Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 147. Xiamen Extremely PQ Display Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 148. Xiamen Extremely PQ Display Technology Co., Ltd. Major Business

Table 149. Xiamen Extremely PQ Display Technology Co., Ltd. Silicon-based Micro-LED Product and Services

Table 150. Xiamen Extremely PQ Display Technology Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Xiamen Extremely PQ Display Technology Co., Ltd. Recent Developments/Updates

Table 152. Xiamen Extremely PQ Display Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 153. Foshan NationStar Optoelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 154. Foshan NationStar Optoelectronics Co., Ltd. Major Business

Table 155. Foshan NationStar Optoelectronics Co., Ltd. Silicon-based Micro-LED Product and Services

Table 156. Foshan NationStar Optoelectronics Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Foshan NationStar Optoelectronics Co., Ltd. Recent Developments/Updates

Table 158. Foshan NationStar Optoelectronics Co., Ltd. Competitive Strengths & Weaknesses

Table 159. Jade Bird Display Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 160. Jade Bird Display Co., Ltd. Major Business

Table 161. Jade Bird Display Co., Ltd. Silicon-based Micro-LED Product and Services

Table 162. Jade Bird Display Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Jade Bird Display Co., Ltd. Recent Developments/Updates

Table 164. Jade Bird Display Co., Ltd. Competitive Strengths & Weaknesses

Table 165. Raysolve Optoelectronics (Suzhou) Company Limited Basic Information, Manufacturing Base and Competitors

Table 166. Raysolve Optoelectronics (Suzhou) Company Limited Major Business

Table 167. Raysolve Optoelectronics (Suzhou) Company Limited Silicon-based Micro-LED Product and Services

Table 168. Raysolve Optoelectronics (Suzhou) Company Limited Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Raysolve Optoelectronics (Suzhou) Company Limited Recent Developments/Updates

Table 170. Raysolve Optoelectronics (Suzhou) Company Limited Competitive Strengths & Weaknesses

Table 171. Shenzhen STD Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. Shenzhen STD Technology Co., Ltd. Major Business

Table 173. Shenzhen STD Technology Co., Ltd. Silicon-based Micro-LED Product and Services

Table 174. Shenzhen STD Technology Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Shenzhen STD Technology Co., Ltd. Recent Developments/Updates

Table 176. Shenzhen STD Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 177. Joinwin Micro-Led Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 178. Joinwin Micro-Led Technology Co., Ltd. Major Business

Table 179. Joinwin Micro-Led Technology Co., Ltd. Silicon-based Micro-LED Product and Services

Table 180. Joinwin Micro-Led Technology Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Joinwin Micro-Led Technology Co., Ltd. Recent Developments/Updates

Table 182. Joinwin Micro-Led Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 183. Yancheng Hongshi Intelligent technology co., LTD. Basic Information, Manufacturing Base and Competitors

Table 184. Yancheng Hongshi Intelligent technology co., LTD. Major Business

Table 185. Yancheng Hongshi Intelligent technology co., LTD. Silicon-based Micro-LED Product and Services

Table 186. Yancheng Hongshi Intelligent technology co., LTD. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Yancheng Hongshi Intelligent technology co., LTD. Recent Developments/Updates

Table 188. Yancheng Hongshi Intelligent technology co., LTD. Competitive Strengths &

Weaknesses

Table 189. HKC Basic Information, Manufacturing Base and Competitors

Table 190. HKC Major Business

Table 191. HKC Silicon-based Micro-LED Product and Services

Table 192. HKC Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. HKC Recent Developments/Updates

Table 194. HKC Competitive Strengths & Weaknesses

Table 195. GZOT Basic Information, Manufacturing Base and Competitors

Table 196. GZOT Major Business

Table 197. GZOT Silicon-based Micro-LED Product and Services

Table 198. GZOT Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. GZOT Recent Developments/Updates

Table 200. GZOT Competitive Strengths & Weaknesses

Table 201. Nanjing Digital Optics Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 202. Nanjing Digital Optics Technology Co., Ltd Major Business

Table 203. Nanjing Digital Optics Technology Co., Ltd Silicon-based Micro-LED Product and Services

Table 204. Nanjing Digital Optics Technology Co., Ltd Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. Nanjing Digital Optics Technology Co., Ltd Recent Developments/Updates

Table 206. Nanjing Digital Optics Technology Co., Ltd Competitive Strengths & Weaknesses

Table 207. Nanjing SmartVision Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 208. Nanjing SmartVision Electronics Co., Ltd. Major Business

Table 209. Nanjing SmartVision Electronics Co., Ltd. Silicon-based Micro-LED Product and Services

Table 210. Nanjing SmartVision Electronics Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Nanjing SmartVision Electronics Co., Ltd. Recent Developments/Updates

Table 212. Nanjing SmartVision Electronics Co., Ltd. Competitive Strengths & Weaknesses

Table 213. Innovision Technology Basic Information, Manufacturing Base and Competitors

Table 214. Innovision Technology Major Business

Table 215. Innovision Technology Silicon-based Micro-LED Product and Services

Table 216. Innovision Technology Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Innovision Technology Recent Developments/Updates

Table 218. Innovision Technology Competitive Strengths & Weaknesses

Table 219. LEKIN Basic Information, Manufacturing Base and Competitors

Table 220. LEKIN Major Business

Table 221. LEKIN Silicon-based Micro-LED Product and Services

Table 222. LEKIN Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. LEKIN Recent Developments/Updates

Table 224. LEKIN Competitive Strengths & Weaknesses

Table 225. Yanshan Technology Basic Information, Manufacturing Base and Competitors

Table 226. Yanshan Technology Major Business

Table 227. Yanshan Technology Silicon-based Micro-LED Product and Services

Table 228. Yanshan Technology Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Yanshan Technology Recent Developments/Updates

Table 230. Yanshan Technology Competitive Strengths & Weaknesses

Table 231. Starksemi Semiconductor (Wuhan) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 232. Starksemi Semiconductor (Wuhan) Co., Ltd. Major Business

Table 233. Starksemi Semiconductor (Wuhan) Co., Ltd. Silicon-based Micro-LED Product and Services

Table 234. Starksemi Semiconductor (Wuhan) Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Starksemi Semiconductor (Wuhan) Co., Ltd. Recent Developments/Updates

Table 236. Starksemi Semiconductor (Wuhan) Co., Ltd. Competitive Strengths & Weaknesses

Table 237. Jingneng Optoelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 238. Jingneng Optoelectronics Co., Ltd. Major Business

Table 239. Jingneng Optoelectronics Co., Ltd. Silicon-based Micro-LED Product and Services

Table 240. Jingneng Optoelectronics Co., Ltd. Silicon-based Micro-LED Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. Jingneng Optoelectronics Co., Ltd. Recent Developments/Updates

Table 242. Jingneng Optoelectronics Co., Ltd. Competitive Strengths & Weaknesses

Table 243. Global Key Players of Silicon-based Micro-LED Upstream (Raw Materials)

Table 244. Global Silicon-based Micro-LED Typical Customers

Table 245. Silicon-based Micro-LED Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Silicon-based Micro-LED Picture
- Figure 2. World Silicon-based Micro-LED Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Silicon-based Micro-LED Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Silicon-based Micro-LED Production (2021-2032) & (K Pcs)
- Figure 5. World Silicon-based Micro-LED Average Price (2021-2032) & (US\$/Pcs)
- Figure 6. World Silicon-based Micro-LED Production Value Market Share by Region (2021-2032)
- Figure 7. World Silicon-based Micro-LED Production Market Share by Region (2021-2032)
- Figure 8. North America Silicon-based Micro-LED Production (2021-2032) & (K Pcs)
- Figure 9. Europe Silicon-based Micro-LED Production (2021-2032) & (K Pcs)
- Figure 10. China Silicon-based Micro-LED Production (2021-2032) & (K Pcs)
- Figure 11. Japan Silicon-based Micro-LED Production (2021-2032) & (K Pcs)
- Figure 12. South Korea Silicon-based Micro-LED Production (2021-2032) & (K Pcs)
- Figure 13. Southeast Asia Silicon-based Micro-LED Production (2021-2032) & (K Pcs)
- Figure 14. China Taiwan Silicon-based Micro-LED Production (2021-2032) & (K Pcs)
- Figure 15. Silicon-based Micro-LED Market Drivers
- Figure 16. Factors Affecting Demand
- Figure 17. World Silicon-based Micro-LED Consumption (2021-2032) & (K Pcs)
- Figure 18. World Silicon-based Micro-LED Consumption Market Share by Region (2021-2032)
- Figure 19. United States Silicon-based Micro-LED Consumption (2021-2032) & (K Pcs)
- Figure 20. China Silicon-based Micro-LED Consumption (2021-2032) & (K Pcs)
- Figure 21. Europe Silicon-based Micro-LED Consumption (2021-2032) & (K Pcs)
- Figure 22. Japan Silicon-based Micro-LED Consumption (2021-2032) & (K Pcs)
- Figure 23. South Korea Silicon-based Micro-LED Consumption (2021-2032) & (K Pcs)
- Figure 24. ASEAN Silicon-based Micro-LED Consumption (2021-2032) & (K Pcs)
- Figure 25. India Silicon-based Micro-LED Consumption (2021-2032) & (K Pcs)
- Figure 26. Producer Shipments of Silicon-based Micro-LED by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 27. Global Four-firm Concentration Ratios (CR4) for Silicon-based Micro-LED Markets in 2025
- Figure 28. Global Four-firm Concentration Ratios (CR8) for Silicon-based Micro-LED

Markets in 2025

Figure 29. United States VS China: Silicon-based Micro-LED Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Silicon-based Micro-LED Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Silicon-based Micro-LED Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Silicon-based Micro-LED Production Market Share 2025

Figure 33. China Based Manufacturers Silicon-based Micro-LED Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Silicon-based Micro-LED Production Market Share 2025

Figure 35. World Silicon-based Micro-LED Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Silicon-based Micro-LED Production Value Market Share by Type in 2025

Figure 37. Monochrome Micro LED

Figure 38. Full-color Micro LED

Figure 39. World Silicon-based Micro-LED Production Market Share by Type (2021-2032)

Figure 40. World Silicon-based Micro-LED Production Value Market Share by Type (2021-2032)

Figure 41. World Silicon-based Micro-LED Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 42. World Silicon-based Micro-LED Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 43. World Silicon-based Micro-LED Production Value Market Share by Power in 2025

Figure 44. Low-power LED Chips

Figure 45. High-power LED Chips

Figure 46. World Silicon-based Micro-LED Production Market Share by Power (2021-2032)

Figure 47. World Silicon-based Micro-LED Production Value Market Share by Power (2021-2032)

Figure 48. World Silicon-based Micro-LED Average Price by Power (2021-2032) & (US\$/Pcs)

Figure 49. World Silicon-based Micro-LED Production Value by Inch, (USD Million), 2021 & 2025 & 2032

Figure 50. World Silicon-based Micro-LED Production Value Market Share by Inch in 2025

Figure 51. 8-inch Silicon Substrate

Figure 52. 12-inch Silicon Substrate

Figure 53. World Silicon-based Micro-LED Production Market Share by Inch (2021-2032)

Figure 54. World Silicon-based Micro-LED Production Value Market Share by Inch (2021-2032)

Figure 55. World Silicon-based Micro-LED Average Price by Inch (2021-2032) & (US\$/Pcs)

Figure 56. World Silicon-based Micro-LED Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Silicon-based Micro-LED Production Value Market Share by Application in 2025

Figure 58. Consumer Electronics (XR/Wearable Devices)

Figure 59. Automotive Displays

Figure 60. Medical

Figure 61. Industrial

Figure 62. Other

Figure 63. World Silicon-based Micro-LED Production Market Share by Application (2021-2032)

Figure 64. World Silicon-based Micro-LED Production Value Market Share by Application (2021-2032)

Figure 65. World Silicon-based Micro-LED Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 66. Silicon-based Micro-LED Industry Chain

Figure 67. Silicon-based Micro-LED Procurement Model

Figure 68. Silicon-based Micro-LED Sales Model

Figure 69. Silicon-based Micro-LED Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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