

Global Si-Based Micro-Display Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Si-Based Micro-Display market size was valued at US\$ 67.47 million in 2025 and is forecast to a readjusted size of US\$ 548 million by 2032 with a CAGR of 34.8% during review period.

In 2025, global Si-Based Micro-Display production reached approximately 160k units , with an average global market price of around US\$400 per unit.

A silicon-based micro-display is a miniature display device that uses a single-crystal silicon wafer as the backplane with integrated CMOS driving circuits, combined with emissive or light-modulating layers such as OLED, liquid crystal, or micro-LED. Typically ranging from a few millimeters to a few inches in size, it features ultra-high pixel density, high resolution, and low power consumption. By combining semiconductor manufacturing with display technologies, silicon-based micro-displays enable high integration and miniaturization, making them ideal for near-eye applications such as AR/VR headsets, electronic viewfinders, and head-up displays. They are broadly classified into emissive types (e.g., Micro-OLED, Micro-LED) and light-modulating types (e.g., LCoS), playing a key role in next-generation spatial computing devices.

The upstream of the silicon-based micro-display industry includes silicon wafer suppliers such as Shin-Etsu Chemical and SUMCO, OLED material providers such as Universal Display Corporation, liquid crystal materials and optical component suppliers, and semiconductor equipment companies like Applied Materials. The midstream consists of micro-display chip designers and manufacturers such as Sony, Himax Technologies, and eMagin, integrating silicon backplanes with display layers. Downstream applications include AR/VR device manufacturers such as Apple and Meta

Platforms, automotive HUD suppliers, and industrial/medical display systems, forming a full value chain from semiconductor materials to end-user devices.

This report is a detailed and comprehensive analysis for global Si-Based Micro-Display market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Si-Based Micro-Display market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Si-Based Micro-Display market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Si-Based Micro-Display market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Si-Based Micro-Display market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Si-Based Micro-Display

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Si-Based Micro-Display market based on

the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kopin, Samsung, Sony, LG, Mojo Vision, Raxium, Micedi Microdisplays, Plessey Semiconductors, Microoled, Himax, etc.

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

Market Segmentation

Si-Based Micro-Display market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Monochrome Micro LED

Full-color Micro LED

Market segment by Resolution

640?480

1920?1080

2560?2560

Others

Market segment by Application

Consumer Electronic

Automotive

Medical Equipment

Industrial Equipment

Others

Major players covered

Kopin

Samsung

Sony

LG

Mojo Vision

Raxium

Micledi Microdisplays

Plessey Semiconductors

Microoled

Himax

eMagin

Saphlux

Hongshi Intelligent Technology

BOE

SeeYA Technology

Lakeside optoelectronics

Bcdtek

Qingyue Optoelectronics

guangweixian Semiconductor

Tianma Microelectronics

Chip Wealth Technology

Nationstar

Sitan Technology

Guozhao Optoelectronics Technology

Innovision Technology

LEKIN

Sinyopto

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Si-Based Micro-Display product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Si-Based Micro-Display, with price, sales quantity, revenue, and global market share of Si-Based Micro-Display from 2021 to 2026.

Chapter 3, the Si-Based Micro-Display competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Si-Based Micro-Display breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Si-Based Micro-Display market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Si-Based Micro-Display.

Chapter 14 and 15, to describe Si-Based Micro-Display sales channel, distributors, customers, research findings and conclusion.

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