

Global Silicon-based OLED Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Silicon-based OLED market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In terms of shipments, global OLED display panel shipments in 2022 will be 870 million pieces, and it is expected that shipments will reach 1.22 billion pieces by 2027, with a CAGR of 6.9%;From the perspective of revenue scale, the global OLED panel market size will be US\$43.3 billion in 2022, and is expected to reach US\$57.7 billion by 2027, with a CAGR of 5.9%.From the perspective of the downstream structure, smartphone screens will account for 65% of shipments and 76.8% of revenue in 2022, making it the largest application market for OLED panels;In the future, OLED will continue to replace traditional LCD screens in mobile phones, TVs, notebook tablets, wearable devices, and vehicles.

This report is a detailed and comprehensive analysis for global Silicon-based OLED 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 Silicon-based OLED market size and forecasts, in consumption value (\$ Million),

sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Silicon-based OLED market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Silicon-based OLED market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Silicon-based OLED market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Silicon-based OLED
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Silicon-based OLED 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 Olightek, BOE, Kopin, Sony, EPSON, eMagin, Microoled, LG Display, INT Tech, etc.

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

Market Segmentation

Silicon-based OLED market is split by Type and by Application. For the period 2020-2031, 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

28nm

55nm

180nm

Market segment by Application

Camera Electronic Viewfinder

AR and VR Wearable Devices

Others

Major players covered

Olightek

BOE

Kopin

Sony

EPSON

eMagin

Microoled

LG Display

INT Tech

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 Silicon-based OLED product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon-based OLED, with price, sales quantity, revenue, and global market share of Silicon-based OLED from 2020 to 2025.

Chapter 3, the Silicon-based OLED competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon-based OLED breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Silicon-based OLED market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Silicon-based OLED.

Chapter 14 and 15, to describe Silicon-based OLED sales channel, distributors, customers, research findings and conclusion.

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