

Global Monochrome LED 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 Monochrome LED Display market size was valued at US\$ 1632 million in 2025 and is forecast to a readjusted size of US\$ 2648 million by 2032 with a CAGR of 7.1% during review period.

In 2025, global Monochrome LED Display production reached approximately 2.27 million square meters, with an average global market price of around US\$700 per square meter.

A Monochrome LED Display is an information display system composed of a single-color LED pixel matrix, where LEDs are controlled to turn on/off or adjust brightness to display text, numbers, and simple graphics. Its core components include LED chips, driver ICs, control systems, PCB modules, power supplies, and protective structures. Compared with full-color LED displays, it has a simpler architecture, lower cost, and higher reliability. Monochrome LED displays typically use red, green, or amber light sources and feature high brightness, strong environmental adaptability, low power consumption, and long service life. They are mainly used in traffic information systems, road signage, toll stations, bus stops, and public announcement systems, making them a fundamental product in outdoor information display applications.

The upstream of the Monochrome LED Display industry includes LED chips, packaging materials, PCB substrates, driver ICs, power modules, and protective materials. Key materials include red/green/yellow LED dies, epoxy resins, aluminum PCB boards, current-limiting driver ICs, and waterproof/dustproof housing materials. Representative upstream companies include Nichia, ams OSRAM, Epistar, San'an Optoelectronics, NationStar Optoelectronics, Macroblock, Texas Instruments, and ON Semiconductor.

The midstream consists of monochrome LED display manufacturers responsible for module design, dot-matrix layout, circuit control, and system assembly. Representative companies include Leyard, Unilumin, Daktronics, Absen, and Liantronics. The downstream includes traffic authorities, municipal engineering departments, public transportation operators, and infrastructure management agencies, covering applications such as road information boards, speed limit signs, toll station displays, bus stop signs, and public announcement systems. Overall, upstream determines luminous efficiency and lifespan, midstream determines display stability and consistency, and downstream demand is driven by urban traffic management and public information digitalization.

The Monochrome LED Display market is currently in a mature and stable stage, serving as a basic functional segment within outdoor information display applications. Current demand mainly comes from traffic management, municipal infrastructure development, and upgrades of public information systems, resulting in steady overall growth. Future trends include improvements in high brightness, low power consumption, longer lifespan, enhanced protection performance, and stronger remote control capabilities, along with deeper integration into smart transportation and urban digital management systems. Key growth drivers include urban traffic digitalization, strengthened road safety management, standardized public information systems, and infrastructure renewal demand. Major restraints include increasing substitution from full-color LED and LCD displays, limited market expansion potential, intense competition due to low technological barriers, and continuous pricing pressure. Overall, future growth will depend more on replacement demand and smart traffic system upgrades rather than expansion into new applications.

This report is a detailed and comprehensive analysis for global Monochrome LED 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 Monochrome LED Display market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Monochrome LED Display market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Monochrome LED Display market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Monochrome LED Display market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 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 Monochrome LED 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 Monochrome LED 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 Mitsubishi Electric, Yaham, Daktronics, Samsung, Barco, Unilumin, LianTronics, Leyard, Absen, AOTO, etc.

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

Market Segmentation

Monochrome LED 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

Red

Green

Yellow

Market segment by Pixel Pitch

P6-P10

P12-P20

P20-P31.25

Others

Market segment by Brightness

?5000 nits

5000-10000 nits

?10000 nits

Others

Market segment by Application

Transportation

Advertising

Sports Competition

Others

Major players covered

Mitsubishi Electric

Yaham

Daktronics

Samsung

Barco

Unilumin

LianTronics

Leyard

Absen

AOTO

Sansi Lighting

Yaham Optoelectronics

Mightary LED

Infiled

Loputech

QS Tech

Teeho Optoelectronic

CLT Electronic

Retop Led Display

Lighthouse Technologies

Qiangli Jucai

Hikvision

Gloshine

Lightking Tech

Meiyad Optoelectronics

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 Monochrome LED Display product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Monochrome LED Display, with price, sales quantity, revenue, and global market share of Monochrome LED Display from 2021 to 2026.

Chapter 3, the Monochrome LED Display competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Monochrome LED 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 Monochrome LED 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 Monochrome LED Display.

Chapter 14 and 15, to describe Monochrome LED Display sales channel, distributors, customers, research findings and conclusion.

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