

Global Quantum Dot Diffuser for LCD Displays Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quantum Dot Diffuser for LCD Displays market size is expected to reach \$ 516 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Quantum Dot Diffuser for LCD Displays is a functional optical plate used in LCD backlight modules, typically integrating quantum dot materials with diffusion resin, substrates, or multilayer optical structures. Under blue LED backlight excitation, it converts part of the blue light into high-purity red and green light while also diffusing and homogenizing the light output. Compared with conventional diffuser plates, it helps improve color gamut, brightness performance, and color reproduction, and is mainly used in high-color-gamut LCD TVs, monitors, laptops, automotive displays, and professional display devices. In 2025, global Quantum Dot Diffuser for LCD Displays production reached approximately 5385 k Units, with an average global market price of around 65 USD/Unit. The production capacity for Quantum Dot Diffuser for LCD Displays in 2025 was approximately 6000 k Units. The typical gross profit margin for Quantum Dot Diffuser for LCD Displays between 20% and 40%.

The market for Quantum Dot Diffusers for LCD Displays is driven by rising demand for wide-color-gamut LCD panels, upgrades in Mini LED backlighting, increasing competition in TV and monitor image quality, and growing adoption in automotive and professional displays. As panel makers and display brands continue to improve color gamut coverage, brightness, and visual uniformity, quantum dot diffusers are becoming an important color-enhancement component in LCD backlight modules, expanding from premium TVs into gaming monitors, laptops, automotive center displays, and commercial displays. However, the market also faces challenges such as quantum dot material cost, encapsulation stability, blue-light conversion efficiency, environmental

regulations, and competition from OLED, QD-OLED, and direct-view Mini LED technologies. Overall, future development is expected to focus on higher stability, low-cadmium or cadmium-free quantum dots, thinner structures, and deeper integration with Mini LED backlight systems.

This report studies the global Quantum Dot Diffuser for LCD Displays production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quantum Dot Diffuser for LCD Displays 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 Quantum Dot Diffuser for LCD Displays that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quantum Dot Diffuser for LCD Displays total production and demand, 2021-2032, (K Units)

Global Quantum Dot Diffuser for LCD Displays total production value, 2021-2032, (USD Million)

Global Quantum Dot Diffuser for LCD Displays production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Quantum Dot Diffuser for LCD Displays consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Quantum Dot Diffuser for LCD Displays domestic production, consumption, key domestic manufacturers and share

Global Quantum Dot Diffuser for LCD Displays production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Quantum Dot Diffuser for LCD Displays production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Quantum Dot Diffuser for LCD Displays production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Quantum Dot Diffuser for LCD Displays 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 Nanosys, Najing Technology, Ningbo Exciton Technology, Zhejiang Xinzhi New Materials, Nantong Changed New Material, Guangna Jiayuan Technology, 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 Quantum Dot Diffuser for LCD Displays market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Quantum Dot Diffuser for LCD Displays Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum Dot Diffuser for LCD Displays Market, Segmentation by Type:

Cadmium-based

Cadmium-free

Global Quantum Dot Diffuser for LCD Displays Market, Segmentation by Substrate Material:

PC-based

PMMA-based

MS-based

Global Quantum Dot Diffuser for LCD Displays Market, Segmentation by Backlight Type:

For LCD Backlight

For Mini LED Backlight

Global Quantum Dot Diffuser for LCD Displays Market, Segmentation by Application:

Television

Monitor

In-vehicle Display

Other

Companies Profiled:

Nanosys

Nanjing Technology

Ningbo Exciton Technology

Zhejiang Xinzhi New Materials

Nantong Changed New Material

Guangna Jiayuan Technology

Key Questions Answered:

1. How big is the global Quantum Dot Diffuser for LCD Displays market?
2. What is the demand of the global Quantum Dot Diffuser for LCD Displays market?
3. What is the year over year growth of the global Quantum Dot Diffuser for LCD Displays market?
4. What is the production and production value of the global Quantum Dot Diffuser for LCD Displays market?
5. Who are the key producers in the global Quantum Dot Diffuser for LCD Displays market?
6. What are the growth factors driving the market demand?

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