

Global Quantum Dot Diffuser Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quantum Dot Diffuser Plate 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).

A Quantum Dot Diffuser Plate is an optical functional plate that integrates quantum dot light-conversion materials with a diffuser plate structure. It is mainly used in LCD backlight modules, where blue LED light excites the quantum dots to convert part of the blue light into high-purity red and green light, while the diffuser plate helps distribute light evenly across the display panel. Compared with conventional diffuser plates, quantum dot diffuser plates provide both light diffusion and spectral conversion, enabling wider color gamut, higher brightness, better color saturation, and improved display uniformity. They are widely used in high-end TVs, monitors, laptops, automotive displays, and commercial display products. In 2025, global Quantum Dot Diffuser Plate production reached approximately 5385 k Units, with an average global market price of around 65 USD/Unit. The production capacity for Quantum Dot Diffuser Plate in 2025 was approximately 6000 k Units. The typical gross profit margin for Quantum Dot Diffuser Plate between 20% and 40%.

The Quantum Dot Diffuser Plate market is driven by the growing demand for wide-color-gamut displays, Mini LED backlights, smart TVs, and premium monitors. The market is gradually expanding from high-end display applications to mid-to-high-end consumer electronics. As LCD display technology continues to improve, quantum dot diffuser plates have become an important solution for enhancing image quality due to their strong color performance, cost efficiency, and compatibility with existing LCD backlight architectures. Future demand is expected to come mainly from large-size TVs, high-refresh-rate monitors, automotive displays, and professional commercial displays.

However, the market also faces competition from OLED and Micro LED technologies, as well as challenges related to quantum dot material stability, encapsulation, production cost, and supply chain maturity.

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

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

Highlights and key features of the study

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

Global Quantum Dot Diffuser Plate total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Quantum Dot Diffuser Plate 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 Plate 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 Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum Dot Diffuser Plate Market, Segmentation by Type:

Cadmium-based

Cadmium-free

Global Quantum Dot Diffuser Plate Market, Segmentation by Substrate Material:

PC-based

PMMA-based

MS-based

Global Quantum Dot Diffuser Plate Market, Segmentation by Backlight Type:

For LCD Backlight

For Mini LED Backlight

Global Quantum Dot Diffuser Plate 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 Plate market?
2. What is the demand of the global Quantum Dot Diffuser Plate market?
3. What is the year over year growth of the global Quantum Dot Diffuser Plate market?
4. What is the production and production value of the global Quantum Dot Diffuser Plate market?
5. Who are the key producers in the global Quantum Dot Diffuser Plate market?
6. What are the growth factors driving the market demand?

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