

Global Display Quantum Dot (QD) Diffusion Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Display Quantum Dot (QD) Diffusion 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).

Display Quantum Dot (QD) Diffusion Plate is a composite optical plate used in LCD and Mini LED backlight display modules. It integrates quantum dot color-conversion materials with a diffuser plate substrate or multilayer co-extruded structure, enabling blue-light conversion, color enhancement, and uniform light diffusion within a single optical component. Compared with the conventional separated structure of ?QD film plus diffuser plate,? a QD diffusion plate combines the quantum dot conversion layer and diffusion function in one plate, helping improve color gamut, brightness uniformity, and backlight efficiency while reducing the number of optical layers, module thickness, and system cost. It is mainly used in high-color-gamut TVs, monitors, automotive displays, commercial displays, and Mini LED backlight products. Industry and research sources indicate that QD diffuser plates are designed to improve Mini LED backlight brightness and uniformity and represent an integrated upgrade path for quantum dot display materials. In 2025, global Display Quantum Dot (QD) Diffusion Plate production reached approximately 5385 k Units, with an average global market price of around 65 USD/Unit,.The production capacity for Display Quantum Dot (QD) Diffusion Plate in 2025 was approximately 6000 k Units. The typical gross profit margin for Display Quantum Dot (QD) Diffusion Plate between 20% and 40%.

The Display Quantum Dot Diffusion Plate market is mainly driven by growing demand for high-color-gamut LCD TVs, Mini LED backlights, automotive displays, and premium monitors. As display products move toward higher brightness, wider color gamut, thinner module structures, and lower system cost, conventional QD film solutions face

increasing pressure to reduce optical layer count, material usage, and module thickness. By integrating diffusion and color-conversion functions, QD diffusion plates are emerging as an important alternative solution for Mini LED and high-end LCD backlight systems. Future competition will focus on quantum dot stability, heat and moisture resistance, blue-light conversion efficiency, co-extrusion and coating processes, optical uniformity, cost optimization, and suppliers' ability to qualify with panel makers and display brands. Available industry information suggests that QD diffusion plate technology can deliver performance close to mainstream QD film while offering potential advantages in process simplification and cost reduction.

This report studies the global Display Quantum Dot (QD) Diffusion Plate production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

Global Display Quantum Dot (QD) Diffusion Plate total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Display Quantum Dot (QD) Diffusion Plate domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Display Quantum Dot (QD) Diffusion 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 Display Quantum Dot (QD) Diffusion 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 Display Quantum Dot (QD) Diffusion Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Display Quantum Dot (QD) Diffusion Plate Market, Segmentation by Type:

Cadmium-based

Cadmium-free

Global Display Quantum Dot (QD) Diffusion Plate Market, Segmentation by Substrate Material:

PC-based Quantum Dot Diffuser Plate

PMMA-based Quantum Dot Diffuser Plate

MS-based Quantum Dot Diffuser Plate

Global Display Quantum Dot (QD) Diffusion Plate Market, Segmentation by Application:

Television

Monitor

In-vehicle Display

Other

Companies Profiled:

Nanosys

Najing Technology

Ningbo Exciton Technology

Zhejiang Xinzhi New Materials

Nantong Changed New Material

Guangna Jiayuan Technology

Key Questions Answered:

1. How big is the global Display Quantum Dot (QD) Diffusion Plate market?
2. What is the demand of the global Display Quantum Dot (QD) Diffusion Plate market?
3. What is the year over year growth of the global Display Quantum Dot (QD) Diffusion Plate market?
4. What is the production and production value of the global Display Quantum Dot (QD) Diffusion Plate market?
5. Who are the key producers in the global Display Quantum Dot (QD) Diffusion Plate market?
6. What are the growth factors driving the market demand?

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