

Global Display Quantum Dot (QD) Diffusion Plate Market Growth 2026-2032

<https://marketpublishers.com/r/GD805D4F53B5EN.html>

Date: October 2026

Pages: 96

Price: US\$ 3,660.00 (Single User License)

ID: GD805D4F53B5EN

Abstracts

The global Display Quantum Dot (QD) Diffusion Plate market size is predicted to grow from US\$ 342 million in 2025 to US\$ 500 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Display Quantum Dot (QD) Diffusion Plate Industry Forecast" looks at past sales and reviews total world Display Quantum Dot (QD) Diffusion Plate sales in 2025, providing a comprehensive analysis by region and market sector of projected Display Quantum Dot (QD) Diffusion Plate sales for 2026 through 2032. With Display Quantum Dot (QD) Diffusion Plate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Display Quantum Dot (QD) Diffusion Plate industry.

This Insight Report provides a comprehensive analysis of the global Display Quantum Dot (QD) Diffusion Plate landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Display Quantum Dot (QD) Diffusion Plate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Display Quantum Dot (QD) Diffusion Plate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Display Quantum Dot (QD) Diffusion Plate and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Display Quantum Dot (QD) Diffusion Plate.

This report presents a comprehensive overview, market shares, and growth opportunities of Display Quantum Dot (QD) Diffusion Plate market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cadmium-based

Cadmium-free

Segmentation by Substrate Material:

PC-based Quantum Dot Diffuser Plate

PMMA-based Quantum Dot Diffuser Plate

MS-based Quantum Dot Diffuser Plate

Segmentation by Application:

Television

Monitor

In-vehicle Display

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Nanosys

Najing Technology

Ningbo Exciton Technology

Zhejiang Xinzhi New Materials

Nantong Changed New Material

Guangna Jiayuan Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Display Quantum Dot (QD) Diffusion Plate market?

What factors are driving Display Quantum Dot (QD) Diffusion Plate market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Display Quantum Dot (QD) Diffusion Plate market opportunities vary by end market size?

How does Display Quantum Dot (QD) Diffusion Plate break out by Type, by Application?

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