

Global Display Quantum Dot (QD) Diffusion Plate 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 Display Quantum Dot (QD) Diffusion Plate market size was valued at US\$ 360 million in 2025 and is forecast to a readjusted size of US\$ 516 million by 2032 with a CAGR of 5.1% during review period.

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 is a detailed and comprehensive analysis for global Display Quantum Dot (QD) Diffusion Plate 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 Display Quantum Dot (QD) Diffusion Plate market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Display Quantum Dot (QD) Diffusion Plate market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Display Quantum Dot (QD) Diffusion Plate market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Display Quantum Dot (QD) Diffusion Plate market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

Global Display Quantum Dot (QD) Diffusion Plate Market 2026 by Manufacturers, Regions, Type and Application, F...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Display Quantum Dot (QD) Diffusion Plate

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 Display Quantum Dot (QD) Diffusion Plate 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 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.

Market Segmentation

Display Quantum Dot (QD) Diffusion Plate 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

Cadmium-based

Cadmium-free

Market segment by Substrate Material

PC-based Quantum Dot Diffuser Plate

PMMA-based Quantum Dot Diffuser Plate

MS-based Quantum Dot Diffuser Plate

Market segment by Application

Television

Monitor

In-vehicle Display

Other

Major players covered

Nanosys

Najing Technology

Ningbo Exciton Technology

Zhejiang Xinzhi New Materials

Nantong Changed New Material

Guangna Jiayuan Technology

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 Display Quantum Dot (QD) Diffusion Plate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Display Quantum Dot (QD) Diffusion Plate, with price, sales quantity, revenue, and global market share of Display Quantum Dot (QD) Diffusion Plate from 2021 to 2026.

Chapter 3, the Display Quantum Dot (QD) Diffusion Plate competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Display Quantum Dot (QD) Diffusion Plate 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 Display Quantum Dot (QD) Diffusion Plate 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 Display Quantum Dot (QD) Diffusion Plate.

Chapter 14 and 15, to describe Display Quantum Dot (QD) Diffusion Plate sales channel, distributors, customers, research findings and conclusion.

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