

Global Quantum Dot Diffuser for LCD Displays Market Growth 2026-2032

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Abstracts

The global Quantum Dot Diffuser for LCD Displays 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.

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.

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

This Insight Report provides a comprehensive analysis of the global Quantum Dot Diffuser for LCD Displays 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 Quantum Dot Diffuser for LCD Displays portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Quantum Dot Diffuser for LCD Displays market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Quantum Dot Diffuser for LCD Displays 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 Quantum Dot Diffuser for LCD Displays.

This report presents a comprehensive overview, market shares, and growth opportunities of Quantum Dot Diffuser for LCD Displays 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

PMMA-based

MS-based

Segmentation by Backlight Type:

For LCD Backlight

For Mini LED Backlight

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 Quantum Dot Diffuser for LCD Displays market?

What factors are driving Quantum Dot Diffuser for LCD Displays market growth, globally and by region?

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

How do Quantum Dot Diffuser for LCD Displays market opportunities vary by end market size?

How does Quantum Dot Diffuser for LCD Displays break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Quantum Dot Diffuser for LCD Displays Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Quantum Dot Diffuser for LCD Displays by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Quantum Dot Diffuser for LCD Displays by Country/Region, 2021, 2025 & 2032

2.2 Quantum Dot Diffuser for LCD Displays Segment by Type

- 2.2.1 Cadmium-based
- 2.2.2 Cadmium-free
- 2.2.3 Quantum Dot Diffuser for LCD Displays Sales by Type
 - 2.2.3.1 Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Quantum Dot Diffuser for LCD Displays Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Quantum Dot Diffuser for LCD Displays Sale Price by Type (2021-2026)

2.3 Quantum Dot Diffuser for LCD Displays Segment by Substrate Material

- 2.3.1 PC-based
- 2.3.2 PMMA-based
- 2.3.3 MS-based
- 2.3.4 Quantum Dot Diffuser for LCD Displays Sales by Substrate Material
 - 2.3.4.1 Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Substrate Material (2021-2026)
 - 2.3.4.2 Global Quantum Dot Diffuser for LCD Displays Revenue and Market Share by

Substrate Material (2021-2026)

2.3.4.3 Global Quantum Dot Diffuser for LCD Displays Sale Price by Substrate Material (2021-2026)

2.4 Quantum Dot Diffuser for LCD Displays Segment by Backlight Type

2.4.1 For LCD Backlight

2.4.2 For Mini LED Backlight

2.4.3 Quantum Dot Diffuser for LCD Displays Sales by Backlight Type

2.4.3.1 Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Backlight Type (2021-2026)

2.4.3.2 Global Quantum Dot Diffuser for LCD Displays Revenue and Market Share by Backlight Type (2021-2026)

2.4.3.3 Global Quantum Dot Diffuser for LCD Displays Sale Price by Backlight Type (2021-2026)

2.5 Quantum Dot Diffuser for LCD Displays Segment by Application

2.5.1 Television

2.5.2 Monitor

2.5.3 In-vehicle Display

2.5.4 Other

2.5.5 Quantum Dot Diffuser for LCD Displays Sales by Application

2.5.5.1 Global Quantum Dot Diffuser for LCD Displays Sale Market Share by Application (2021-2026)

2.5.5.2 Global Quantum Dot Diffuser for LCD Displays Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Quantum Dot Diffuser for LCD Displays Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Quantum Dot Diffuser for LCD Displays Breakdown Data by Company

3.1.1 Global Quantum Dot Diffuser for LCD Displays Annual Sales by Company (2021-2026)

3.1.2 Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Company (2021-2026)

3.2 Global Quantum Dot Diffuser for LCD Displays Annual Revenue by Company (2021-2026)

3.2.1 Global Quantum Dot Diffuser for LCD Displays Revenue by Company (2021-2026)

3.2.2 Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Company (2021-2026)

- 3.3 Global Quantum Dot Diffuser for LCD Displays Sale Price by Company
- 3.4 Key Manufacturers Quantum Dot Diffuser for LCD Displays Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Quantum Dot Diffuser for LCD Displays Product Location Distribution
 - 3.4.2 Players Quantum Dot Diffuser for LCD Displays Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR QUANTUM DOT DIFFUSER FOR LCD DISPLAYS BY GEOGRAPHIC REGION

- 4.1 World Historic Quantum Dot Diffuser for LCD Displays Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Quantum Dot Diffuser for LCD Displays Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Quantum Dot Diffuser for LCD Displays Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Quantum Dot Diffuser for LCD Displays Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Quantum Dot Diffuser for LCD Displays Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Quantum Dot Diffuser for LCD Displays Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Quantum Dot Diffuser for LCD Displays Sales Growth
- 4.4 APAC Quantum Dot Diffuser for LCD Displays Sales Growth
- 4.5 Europe Quantum Dot Diffuser for LCD Displays Sales Growth
- 4.6 Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales Growth

5 AMERICAS

- 5.1 Americas Quantum Dot Diffuser for LCD Displays Sales by Country
 - 5.1.1 Americas Quantum Dot Diffuser for LCD Displays Sales by Country (2021-2026)
 - 5.1.2 Americas Quantum Dot Diffuser for LCD Displays Revenue by Country (2021-2026)
- 5.2 Americas Quantum Dot Diffuser for LCD Displays Sales by Type (2021-2026)

5.3 Americas Quantum Dot Diffuser for LCD Displays Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Quantum Dot Diffuser for LCD Displays Sales by Region

6.1.1 APAC Quantum Dot Diffuser for LCD Displays Sales by Region (2021-2026)

6.1.2 APAC Quantum Dot Diffuser for LCD Displays Revenue by Region (2021-2026)

6.2 APAC Quantum Dot Diffuser for LCD Displays Sales by Type (2021-2026)

6.3 APAC Quantum Dot Diffuser for LCD Displays Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Quantum Dot Diffuser for LCD Displays by Country

7.1.1 Europe Quantum Dot Diffuser for LCD Displays Sales by Country (2021-2026)

7.1.2 Europe Quantum Dot Diffuser for LCD Displays Revenue by Country (2021-2026)

7.2 Europe Quantum Dot Diffuser for LCD Displays Sales by Type (2021-2026)

7.3 Europe Quantum Dot Diffuser for LCD Displays Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Quantum Dot Diffuser for LCD Displays by Country

8.1.1 Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales by Country

(2021-2026)

8.1.2 Middle East & Africa Quantum Dot Diffuser for LCD Displays Revenue by Country (2021-2026)

8.2 Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales by Type (2021-2026)

8.3 Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Quantum Dot Diffuser for LCD Displays

10.3 Manufacturing Process Analysis of Quantum Dot Diffuser for LCD Displays

10.4 Industry Chain Structure of Quantum Dot Diffuser for LCD Displays

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Quantum Dot Diffuser for LCD Displays Distributors

11.3 Quantum Dot Diffuser for LCD Displays Customer

12 WORLD FORECAST REVIEW FOR QUANTUM DOT DIFFUSER FOR LCD DISPLAYS BY GEOGRAPHIC REGION

12.1 Global Quantum Dot Diffuser for LCD Displays Market Size Forecast by Region

12.1.1 Global Quantum Dot Diffuser for LCD Displays Forecast by Region (2027-2032)

12.1.2 Global Quantum Dot Diffuser for LCD Displays Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Quantum Dot Diffuser for LCD Displays Forecast by Type (2027-2032)

12.7 Global Quantum Dot Diffuser for LCD Displays Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Nanosys

13.1.1 Nanosys Company Information

13.1.2 Nanosys Quantum Dot Diffuser for LCD Displays Product Portfolios and Specifications

13.1.3 Nanosys Quantum Dot Diffuser for LCD Displays Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Nanosys Main Business Overview

13.1.5 Nanosys Latest Developments

13.2 Najing Technology

13.2.1 Najing Technology Company Information

13.2.2 Najing Technology Quantum Dot Diffuser for LCD Displays Product Portfolios and Specifications

13.2.3 Najing Technology Quantum Dot Diffuser for LCD Displays Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Najing Technology Main Business Overview

13.2.5 Najing Technology Latest Developments

13.3 Ningbo Exciton Technology

13.3.1 Ningbo Exciton Technology Company Information

13.3.2 Ningbo Exciton Technology Quantum Dot Diffuser for LCD Displays Product Portfolios and Specifications

13.3.3 Ningbo Exciton Technology Quantum Dot Diffuser for LCD Displays Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Ningbo Exciton Technology Main Business Overview

13.3.5 Ningbo Exciton Technology Latest Developments

13.4 Zhejiang Xinzhi New Materials

13.4.1 Zhejiang Xinzhi New Materials Company Information

13.4.2 Zhejiang Xinzhi New Materials Quantum Dot Diffuser for LCD Displays Product

Portfolios and Specifications

13.4.3 Zhejiang Xinzhi New Materials Quantum Dot Diffuser for LCD Displays Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Zhejiang Xinzhi New Materials Main Business Overview

13.4.5 Zhejiang Xinzhi New Materials Latest Developments

13.5 Nantong Changed New Material

13.5.1 Nantong Changed New Material Company Information

13.5.2 Nantong Changed New Material Quantum Dot Diffuser for LCD Displays

Product Portfolios and Specifications

13.5.3 Nantong Changed New Material Quantum Dot Diffuser for LCD Displays Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Nantong Changed New Material Main Business Overview

13.5.5 Nantong Changed New Material Latest Developments

13.6 Guangna Jiayuan Technology

13.6.1 Guangna Jiayuan Technology Company Information

13.6.2 Guangna Jiayuan Technology Quantum Dot Diffuser for LCD Displays Product

Portfolios and Specifications

13.6.3 Guangna Jiayuan Technology Quantum Dot Diffuser for LCD Displays Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Guangna Jiayuan Technology Main Business Overview

13.6.5 Guangna Jiayuan Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Quantum Dot Diffuser for LCD Displays Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Quantum Dot Diffuser for LCD Displays Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Cadmium-based

Table 4. Major Players of Cadmium-free

Table 5. Global Quantum Dot Diffuser for LCD Displays Sales by Type (2021-2026) & (K Units)

Table 6. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Type (2021-2026)

Table 7. Global Quantum Dot Diffuser for LCD Displays Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Type (2021-2026)

Table 9. Global Quantum Dot Diffuser for LCD Displays Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of PC-based

Table 11. Major Players of PMMA-based

Table 12. Major Players of MS-based

Table 13. Global Quantum Dot Diffuser for LCD Displays Sales by Substrate Material (2021-2026) & (K Units)

Table 14. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Substrate Material (2021-2026)

Table 15. Global Quantum Dot Diffuser for LCD Displays Revenue by Substrate Material (2021-2026) & (\$ million)

Table 16. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Substrate Material (2021-2026)

Table 17. Global Quantum Dot Diffuser for LCD Displays Sale Price by Substrate Material (2021-2026) & (US\$/Unit)

Table 18. Major Players of For LCD Backlight

Table 19. Major Players of For Mini LED Backlight

Table 20. Global Quantum Dot Diffuser for LCD Displays Sales by Backlight Type (2021-2026) & (K Units)

Table 21. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Backlight Type (2021-2026)

Table 22. Global Quantum Dot Diffuser for LCD Displays Revenue by Backlight Type (2021-2026) & (\$ million)

Table 23. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Backlight Type (2021-2026)

Table 24. Global Quantum Dot Diffuser for LCD Displays Sale Price by Backlight Type (2021-2026) & (US\$/Unit)

Table 25. Global Quantum Dot Diffuser for LCD Displays Sale by Application (2021-2026) & (K Units)

Table 26. Global Quantum Dot Diffuser for LCD Displays Sale Market Share by Application (2021-2026)

Table 27. Global Quantum Dot Diffuser for LCD Displays Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Application (2021-2026)

Table 29. Global Quantum Dot Diffuser for LCD Displays Sale Price by Application (2021-2026) & (US\$/Unit)

Table 30. Global Quantum Dot Diffuser for LCD Displays Sales by Company (2021-2026) & (K Units)

Table 31. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Company (2021-2026)

Table 32. Global Quantum Dot Diffuser for LCD Displays Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Company (2021-2026)

Table 34. Global Quantum Dot Diffuser for LCD Displays Sale Price by Company (2021-2026) & (US\$/Unit)

Table 35. Key Manufacturers Quantum Dot Diffuser for LCD Displays Producing Area Distribution and Sales Area

Table 36. Players Quantum Dot Diffuser for LCD Displays Products Offered

Table 37. Quantum Dot Diffuser for LCD Displays Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global Quantum Dot Diffuser for LCD Displays Sales by Geographic Region (2021-2026) & (K Units)

Table 41. Global Quantum Dot Diffuser for LCD Displays Sales Market Share Geographic Region (2021-2026)

Table 42. Global Quantum Dot Diffuser for LCD Displays Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global Quantum Dot Diffuser for LCD Displays Sales by Country/Region (2021-2026) & (K Units)

Table 45. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Country/Region (2021-2026)

Table 46. Global Quantum Dot Diffuser for LCD Displays Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Quantum Dot Diffuser for LCD Displays Sales by Country (2021-2026) & (K Units)

Table 49. Americas Quantum Dot Diffuser for LCD Displays Sales Market Share by Country (2021-2026)

Table 50. Americas Quantum Dot Diffuser for LCD Displays Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Quantum Dot Diffuser for LCD Displays Sales by Type (2021-2026) & (K Units)

Table 52. Americas Quantum Dot Diffuser for LCD Displays Sales by Application (2021-2026) & (K Units)

Table 53. APAC Quantum Dot Diffuser for LCD Displays Sales by Region (2021-2026) & (K Units)

Table 54. APAC Quantum Dot Diffuser for LCD Displays Sales Market Share by Region (2021-2026)

Table 55. APAC Quantum Dot Diffuser for LCD Displays Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Quantum Dot Diffuser for LCD Displays Sales by Type (2021-2026) & (K Units)

Table 57. APAC Quantum Dot Diffuser for LCD Displays Sales by Application (2021-2026) & (K Units)

Table 58. Europe Quantum Dot Diffuser for LCD Displays Sales by Country (2021-2026) & (K Units)

Table 59. Europe Quantum Dot Diffuser for LCD Displays Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Quantum Dot Diffuser for LCD Displays Sales by Type (2021-2026) & (K Units)

Table 61. Europe Quantum Dot Diffuser for LCD Displays Sales by Application (2021-2026) & (K Units)

Table 62. Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales by

Country (2021-2026) & (K Units)

Table 63. Middle East & Africa Quantum Dot Diffuser for LCD Displays Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales by Type (2021-2026) & (K Units)

Table 65. Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales by Application (2021-2026) & (K Units)

Table 66. Key Market Drivers & Growth Opportunities of Quantum Dot Diffuser for LCD Displays

Table 67. Key Market Challenges & Risks of Quantum Dot Diffuser for LCD Displays

Table 68. Key Industry Trends of Quantum Dot Diffuser for LCD Displays

Table 69. Quantum Dot Diffuser for LCD Displays Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. Quantum Dot Diffuser for LCD Displays Distributors List

Table 72. Quantum Dot Diffuser for LCD Displays Customer List

Table 73. Global Quantum Dot Diffuser for LCD Displays Sales Forecast by Region (2027-2032) & (K Units)

Table 74. Global Quantum Dot Diffuser for LCD Displays Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas Quantum Dot Diffuser for LCD Displays Sales Forecast by Country (2027-2032) & (K Units)

Table 76. Americas Quantum Dot Diffuser for LCD Displays Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC Quantum Dot Diffuser for LCD Displays Sales Forecast by Region (2027-2032) & (K Units)

Table 78. APAC Quantum Dot Diffuser for LCD Displays Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe Quantum Dot Diffuser for LCD Displays Sales Forecast by Country (2027-2032) & (K Units)

Table 80. Europe Quantum Dot Diffuser for LCD Displays Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales Forecast by Country (2027-2032) & (K Units)

Table 82. Middle East & Africa Quantum Dot Diffuser for LCD Displays Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global Quantum Dot Diffuser for LCD Displays Sales Forecast by Type (2027-2032) & (K Units)

Table 84. Global Quantum Dot Diffuser for LCD Displays Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global Quantum Dot Diffuser for LCD Displays Sales Forecast by Application (2027-2032) & (K Units)

Table 86. Global Quantum Dot Diffuser for LCD Displays Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Nanosys Basic Information, Quantum Dot Diffuser for LCD Displays Manufacturing Base, Sales Area and Its Competitors

Table 88. Nanosys Quantum Dot Diffuser for LCD Displays Product Portfolios and Specifications

Table 89. Nanosys Quantum Dot Diffuser for LCD Displays Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Nanosys Main Business

Table 91. Nanosys Latest Developments

Table 92. Najing Technology Basic Information, Quantum Dot Diffuser for LCD Displays Manufacturing Base, Sales Area and Its Competitors

Table 93. Najing Technology Quantum Dot Diffuser for LCD Displays Product Portfolios and Specifications

Table 94. Najing Technology Quantum Dot Diffuser for LCD Displays Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Najing Technology Main Business

Table 96. Najing Technology Latest Developments

Table 97. Ningbo Exciton Technology Basic Information, Quantum Dot Diffuser for LCD Displays Manufacturing Base, Sales Area and Its Competitors

Table 98. Ningbo Exciton Technology Quantum Dot Diffuser for LCD Displays Product Portfolios and Specifications

Table 99. Ningbo Exciton Technology Quantum Dot Diffuser for LCD Displays Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. Ningbo Exciton Technology Main Business

Table 101. Ningbo Exciton Technology Latest Developments

Table 102. Zhejiang Xinzhi New Materials Basic Information, Quantum Dot Diffuser for LCD Displays Manufacturing Base, Sales Area and Its Competitors

Table 103. Zhejiang Xinzhi New Materials Quantum Dot Diffuser for LCD Displays Product Portfolios and Specifications

Table 104. Zhejiang Xinzhi New Materials Quantum Dot Diffuser for LCD Displays Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Zhejiang Xinzhi New Materials Main Business

Table 106. Zhejiang Xinzhi New Materials Latest Developments

Table 107. Nantong Changed New Material Basic Information, Quantum Dot Diffuser for LCD Displays Manufacturing Base, Sales Area and Its Competitors

Table 108. Nantong Changed New Material Quantum Dot Diffuser for LCD Displays

Product Portfolios and Specifications

Table 109. Nantong Changed New Material Quantum Dot Diffuser for LCD Displays Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Nantong Changed New Material Main Business

Table 111. Nantong Changed New Material Latest Developments

Table 112. Guangna Jiayuan Technology Basic Information, Quantum Dot Diffuser for LCD Displays Manufacturing Base, Sales Area and Its Competitors

Table 113. Guangna Jiayuan Technology Quantum Dot Diffuser for LCD Displays

Product Portfolios and Specifications

Table 114. Guangna Jiayuan Technology Quantum Dot Diffuser for LCD Displays Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Guangna Jiayuan Technology Main Business

Table 116. Guangna Jiayuan Technology Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Quantum Dot Diffuser for LCD Displays

Figure 2. Quantum Dot Diffuser for LCD Displays Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Quantum Dot Diffuser for LCD Displays Sales Growth Rate 2021-2032 (K Units)

Figure 7. Global Quantum Dot Diffuser for LCD Displays Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Quantum Dot Diffuser for LCD Displays Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Quantum Dot Diffuser for LCD Displays Sales Market Share by Country/Region (2025)

Figure 10. Quantum Dot Diffuser for LCD Displays Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Cadmium-based

Figure 12. Product Picture of Cadmium-free

Figure 13. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Type in 2026

Figure 14. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Type (2021-2026)

Figure 15. Product Picture of PC-based

Figure 16. Product Picture of PMMA-based

Figure 17. Product Picture of MS-based

Figure 18. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Substrate Material in 2026

Figure 19. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Substrate Material (2021-2026)

Figure 20. Product Picture of For LCD Backlight

Figure 21. Product Picture of For Mini LED Backlight

Figure 22. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Backlight Type in 2026

Figure 23. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Backlight Type (2021-2026)

Figure 24. Quantum Dot Diffuser for LCD Displays Consumed in Television

Figure 25. Global Quantum Dot Diffuser for LCD Displays Market: Television (2021-2026) & (K Units)

Figure 26. Quantum Dot Diffuser for LCD Displays Consumed in Monitor

Figure 27. Global Quantum Dot Diffuser for LCD Displays Market: Monitor (2021-2026) & (K Units)

Figure 28. Quantum Dot Diffuser for LCD Displays Consumed in In-vehicle Display

Figure 29. Global Quantum Dot Diffuser for LCD Displays Market: In-vehicle Display (2021-2026) & (K Units)

Figure 30. Quantum Dot Diffuser for LCD Displays Consumed in Other

Figure 31. Global Quantum Dot Diffuser for LCD Displays Market: Other (2021-2026) & (K Units)

Figure 32. Global Quantum Dot Diffuser for LCD Displays Sale Market Share by Application (2025)

Figure 33. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Application in 2025

Figure 34. Quantum Dot Diffuser for LCD Displays Sales by Company in 2025 (K Units)

Figure 35. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Company in 2025

Figure 36. Quantum Dot Diffuser for LCD Displays Revenue by Company in 2025 (\$ millions)

Figure 37. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Company in 2025

Figure 38. Global Quantum Dot Diffuser for LCD Displays Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share by Geographic Region in 2025

Figure 40. Americas Quantum Dot Diffuser for LCD Displays Sales 2021-2026 (K Units)

Figure 41. Americas Quantum Dot Diffuser for LCD Displays Revenue 2021-2026 (\$ millions)

Figure 42. APAC Quantum Dot Diffuser for LCD Displays Sales 2021-2026 (K Units)

Figure 43. APAC Quantum Dot Diffuser for LCD Displays Revenue 2021-2026 (\$ millions)

Figure 44. Europe Quantum Dot Diffuser for LCD Displays Sales 2021-2026 (K Units)

Figure 45. Europe Quantum Dot Diffuser for LCD Displays Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales 2021-2026 (K Units)

Figure 47. Middle East & Africa Quantum Dot Diffuser for LCD Displays Revenue 2021-2026 (\$ millions)

Figure 48. Americas Quantum Dot Diffuser for LCD Displays Sales Market Share by Country in 2025

Figure 49. Americas Quantum Dot Diffuser for LCD Displays Revenue Market Share by Country (2021-2026)

Figure 50. Americas Quantum Dot Diffuser for LCD Displays Sales Market Share by Type (2021-2026)

Figure 51. Americas Quantum Dot Diffuser for LCD Displays Sales Market Share by Application (2021-2026)

Figure 52. United States Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Quantum Dot Diffuser for LCD Displays Sales Market Share by Region in 2025

Figure 57. APAC Quantum Dot Diffuser for LCD Displays Revenue Market Share by Region (2021-2026)

Figure 58. APAC Quantum Dot Diffuser for LCD Displays Sales Market Share by Type (2021-2026)

Figure 59. APAC Quantum Dot Diffuser for LCD Displays Sales Market Share by Application (2021-2026)

Figure 60. China Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Quantum Dot Diffuser for LCD Displays Sales Market Share by

Country in 2025

Figure 68. Europe Quantum Dot Diffuser for LCD Displays Revenue Market Share by Country (2021-2026)

Figure 69. Europe Quantum Dot Diffuser for LCD Displays Sales Market Share by Type (2021-2026)

Figure 70. Europe Quantum Dot Diffuser for LCD Displays Sales Market Share by Application (2021-2026)

Figure 71. Germany Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Quantum Dot Diffuser for LCD Displays Sales Market Share by Application (2021-2026)

Figure 79. Egypt Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Quantum Dot Diffuser for LCD Displays Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Quantum Dot Diffuser for LCD Displays in 2026

Figure 85. Manufacturing Process Analysis of Quantum Dot Diffuser for LCD Displays

Figure 86. Industry Chain Structure of Quantum Dot Diffuser for LCD Displays

Figure 87. Channels of Distribution

Figure 88. Global Quantum Dot Diffuser for LCD Displays Sales Market Forecast by

Region (2027-2032)

Figure 89. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Quantum Dot Diffuser for LCD Displays Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Quantum Dot Diffuser for LCD Displays Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Quantum Dot Diffuser for LCD Displays Revenue Market Share Forecast by Application (2027-2032)

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