

# Quantum Dot Market 2026 pushing boundaries in high-performance display technologies

*The Business Research Company's Quantum Dot Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035*

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/EINPresswire.com/ -- "The [quantum dot market](#) is dominated by a mix of global semiconductor manufacturers and specialized nanomaterials technology firms. Companies are

focusing on high-performance quantum dot synthesis, precision size and wavelength control, surface functionalization, and integration with display, lighting, and biomedical applications to strengthen market presence and ensure consistent performance. Emphasis on regulatory compliance, material stability, optical efficiency, and reproducibility in manufacturing remains central to competitive positioning. Understanding the competitive landscape is essential for stakeholders seeking growth opportunities, technological innovation, and strategic partnerships within the rapidly evolving nanomaterials and optoelectronic applications sector.

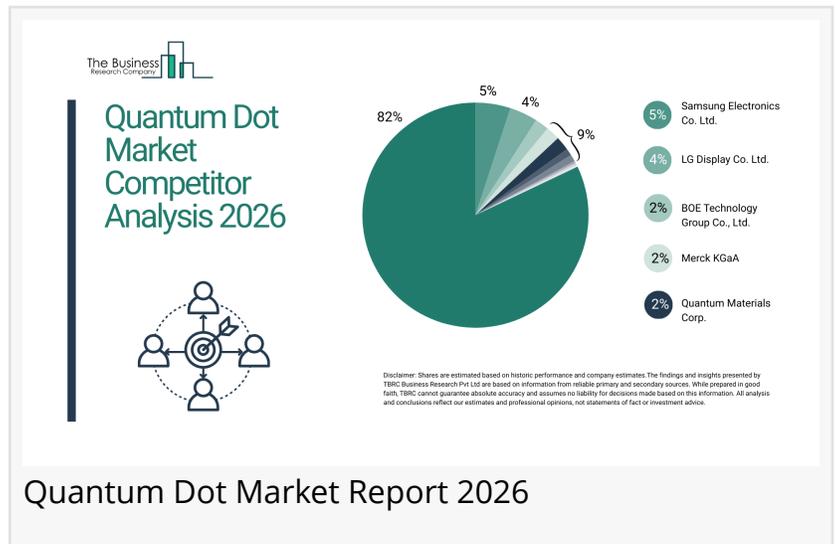
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## Which Market Player Is Leading The Quantum Dot Market?

- According to our research, Samsung Electronics Co. Ltd. led global sales in 2024 with a 5% market share. The advanced nanomaterials division of the company, which is directly involved in the quantum dot market, provides a wide range of high-performance quantum dots, nanoparticle dispersions, surface-functionalized nanomaterials, and integration solutions that support display technologies, lighting applications, biomedical imaging, and regulated optoelectronic environments.

## Who Are The Major Players In The Quantum Dot Market?

Major companies operating in the quantum dot market are Samsung Electronics Co. Ltd., LG Display Co. Ltd., BOE Technology Group Co., Ltd., Merck KGaA, Quantum Materials Corp., Thermo Fisher Scientific Inc., QD Laser Inc., Nanosys Inc., Metrohm AG, Crystalplex Corporation, DuPont



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de Nemours Inc., American Elements, Nexxus Lighting Inc., Sony Corporation, RTX Corporation, NanoPhotonica Inc., Nanoco Group plc, NN-Labs LLC, Nano Elements Source LLC, Avantama AG, UbiQD, Inc., Navillum Nanotechnologies, Ocean NanoTech., Life Technologies Corporation, 3M Company, Osram Licht AG, Applied Quantum.

#### How Concentrated Is The Quantum Dot Market?

- The market is fairly fragmented, with the top 10 players accounting for 18% of total market revenue in 2024. This level of concentration reflects moderate technological and regulatory entry barriers, driven by stringent material quality standards, compliance with nanomaterials safety regulations, precision synthesis requirements, and the need for reliability in optoelectronic and biomedical application environments. Leading players such as Samsung Electronics Co. Ltd., LG Display Co. Ltd., BOE Technology Group Co., Ltd., Merck KGaA, Quantum Materials Corp., Thermo Fisher Scientific Inc., QD Laser Inc., Nanosys Inc., Metrohm AG, and Crystalplex Corporation hold notable market shares through diversified quantum dot and nanomaterials portfolios, strong partnerships with display, lighting, and biomedical solution providers, global manufacturing and distribution networks, and continuous innovation in high-performance quantum dot synthesis and applications. As demand for advanced display technologies, optoelectronic devices, and regulated biomedical imaging solutions grows, strategic collaborations, product innovation, and regional expansion are expected to strengthen the competitive positioning of these leading companies in the market.

- Leading companies include:

- o Samsung Electronics Co. Ltd. (5%)
- o LG Display Co. Ltd. (4%)
- o BOE Technology Group Co., Ltd. (2%)
- o Merck KGaA (2%)
- o Quantum Materials Corp. (2%)
- o Thermo Fisher Scientific Inc. (1%)
- o QD Laser Inc. (1%)
- o Nanosys Inc. (0.3%)
- o Metrohm AG (0.3%)
- o Crystalplex Corporation (0.3%)

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#### Who Are The Key Raw Material Suppliers In The Quantum Dot Market?

- Major raw materials suppliers in the quantum dot market include Nanosys Inc., Quantum Solutions LLC, Ocean Nanotech Inc., Evident Technologies LLC, Nanoco Group plc, Sigma-Aldrich, Avantama GmbH, PlasmaChem GmbH, Quantum Materials Corp., Nanogap Inc., Crystalplex LLC, Nanophotonica Inc., Quantum Materials Technologies Inc., Sumitomo Chemical Co. Ltd., Hanwha Solutions Corporation, Merck Performance Materials GmbH, Dow Chemical Company.

### Who Are The Major Wholesalers And Distributors In The Quantum Dot Market?

- Major wholesalers or distributors in the quantum dot market include Future Electronics Inc., Avnet Inc., Mouser Electronics Inc., Digi-Key Electronics Inc., Richardson Electronics Ltd., RS Components Ltd., Arrow Electronics Inc., TTI Inc., Heilind Electronics LLC, Farnell Ltd., Allied Electronics & Automation, WPG Holdings Limited, Sager Electronics Inc., Rutronik Elektronische Bauelemente GmbH, Avionics Distributors Inc., Electrocomponents plc, Macnica Inc., Comet AG, Symmetry Electronics, Premier Farnell Inc., Premier Microelectronics Inc., Future Electronics Canada.

### Who Are The Major End Users Of The Quantum Dot Market?

- Major end users in the quantum dot market include Sony Corporation, TCL Technology Group Corporation, Hisense Group Co. Ltd., BOE Technology Group Co. Ltd., Sharp Corporation, Lenovo Group Ltd., Xiaomi Corporation, Oppo Electronics Corp., Vivo Communication Technology Co. Ltd., ASUS Computer International, Vizio Inc., Skyworth Group Co. Ltd., Konka Group Co. Ltd., JVC Kenwood Corporation, Funai Electric Co. Ltd., Seiko Epson Corporation, LG Innotek Co. Ltd., SK hynix Inc., Kyocera Corporation.

### What Are the Major Competitive Trends in the Market?

- Advanced quantum dot technologies are transforming the quantum dot market by enhancing color accuracy, brightness, and energy efficiency across displays, lighting, and solar applications.
- Example: In April 2025, UbiQD, Inc. launched UbiGro greenhouse films and quantum dot laminated glass.
- Its innovative designs improve photosynthesis, nutrient uptake, crop yield, and solar panel performance, while reducing energy costs and enhancing operational efficiency.

### Which Strategies Are Companies Adopting To Stay Ahead?

- Quantum Dot Display Technologies Enhancing Color Accuracy And Energy Efficiency
- Leveraging Quantum Dot Films And Materials To Enhance Visual Performance And User Experience
- Expanding QD-Mini LED TVs To Deliver Immersive And High-Quality Home Entertainment
- Advanced QD Ink Regeneration Technologies Supporting Efficiency And Sustainability

Access The Detailed Quantum Dotreport here

[https://www.thebusinessresearchcompany.com/report/quantum-dot-global-market-report?utm\\_source=EINPresswire&utm\\_medium=Paid&utm\\_campaign=Mar\\_PR](https://www.thebusinessresearchcompany.com/report/quantum-dot-global-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Mar_PR)

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