

Global Quantum Dot Technology Market Growth (Status and Outlook) 2025-2031

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Abstracts

According to this study, the global Quantum Dot Technology market size will reach US\$ 968 million by 2031.

Quantum dots (QDs) or semiconductor nanocrystals are semiconductor particles a few nanometres in size with optical and electronic properties that differ from those of larger particles via quantum mechanical effects. They are a central topic in nanotechnology and materials science. When a quantum dot is illuminated by UV light, an electron in the quantum dot can be excited to a state of higher energy. In the case of a semiconducting quantum dot, this process corresponds to the transition of an electron from the valence band to the conduction band. The excited electron can drop back into the valence band releasing its energy as light. This light emission (photoluminescence) is illustrated in the figure on the right. The color of that light depends on the energy difference between the discrete energy levels of the quantum dot in the conduction band and the valence band. Nanoscale semiconductor materials tightly confine either electrons or electron holes. The confinement is similar to a three-dimensional particle in a box model. The quantum dot absorption and emission features correspond to transitions between discrete quantum mechanically allowed energy levels in the box that are reminiscent of atomic spectra. For these reasons, quantum dots are sometimes referred to as artificial atoms, emphasizing their bound and discrete electronic states, like naturally occurring atoms or molecules. It was shown that the electronic wave functions in quantum dots resemble the ones in real atoms. This report covers the quantum dot product market.

The global quantum dots market is anticipated to grow significantly over the forecast period. Increased demand for optimized devices with better performance and high resolution is expected to be a key driver for the quantum dots market in various application areas. Quantum dots (QD) exhibit a brightness which is 10-20 times higher

than organic dyes. Owing to the shrinkage of semiconductor materials to quantum-dot level, the material gets converted from insulator to conductor due to alteration in the light wavelength. This conversion property enables quantum dots to be integrated in numerous devices instead of searching for new semiconductors possessing a special chemical composition.

LPI (LP Information)' newest research report, the “Quantum Dot Technology Industry Forecast” looks at past sales and reviews total world Quantum Dot Technology sales in 2024, providing a comprehensive analysis by region and market sector of projected Quantum Dot Technology sales for 2025 through 2031. With Quantum Dot Technology sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Quantum Dot Technology industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Quantum Dot Technology market by product type, application, key players and key regions and countries.

Segmentation by Type:

Type II-VI (with Cd)

Type II-VI (Cd-free)

Type III-V

Perovskite

Others

Segmentation by Application:

Displays

Medical Devices

Solar Cells

Sensors

Others

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 analyzing the company's coverage, product portfolio, its market penetration.

BOHR

Hansol Chemical

Suzhou Xingshuo Nanotech

American Elements

Xingzi New Material

Najing Tech

Nantong Veeyeei

Nanosys Inc.

Huada Nano

Nanoco

Yang-Ming Quantum Tech

Wuhan Jiayuan

Samsung Electronics Co. Ltd

Avantama

Sigma-Aldrich Co. LLC

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Figure 80. GCC Countries Quantum Dot Technology Market Size 2026-2031 (\$ millions)

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