

# **Quantum Dots Market by Product (QD Medical Devices, QD Solar Cells, QD Photodetector/QD Sensors, QD Lasers, QD Lighting, Batteries and Energy Storage Systems, QD Transistors, and QD Tags),Material, Vertical, and geography - Global Forecast to 2023**

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## **Abstracts**

“Quantum dots market to grow at a CAGR of 26.97% between 2018 and 2023”

The quantum dots market is expected to reach USD 8.47 billion by 2023 from USD 2.57 billion in 2018, at a CAGR of 26.97%. The market growth can be attributed to factors such as the increasing demand for quantum dots in high-quality display devices, growing implementation of quantum dots in numerous applications due to their miniature property, and rising adoption of energy-efficient and less or non-toxic quantum dots in solar cells and photovoltaics. The limited availability of rare earth materials is restraining the market growth to a certain extent.

“QD lighting (LED) solutions to hold largest market share during forecast period”

QD lighting (LED) solutions is expected to hold the largest share of the quantum dots market. The use of quantum dots as down converters in white LEDs or luminaires offers a significant level of tunability of the resulting spectral output. Also, the incorporation of quantum dots into LED design marks a vital step in reducing the cost of LED production and making them inexpensive for the average consumer.

“Quantum dots market for healthcare vertical to grow at highest CAGR during forecast period”

The quantum dots market for the healthcare vertical is expected to grow at the highest CAGR during the forecast period. In the healthcare vertical, quantum dots are used in biological imaging, cellular labeling, and DNA labeling, and cancer diagnosis. The growing adoption of quantum dots for diagnosis, prognosis, and treatment is expected to propel the growth of the quantum dots market in the healthcare vertical.

“APAC to dominate quantum dots market during forecast period”

APAC was the leading market for quantum dots in 2017. Owing to the presence of local players in China, most of the TV manufacturing is being done in this country. Consumer electronics is one of the major applications for quantum dots. Thus, the growing demand for brighter, vibrant, and energy-efficient displays in countries such as India, China, and Japan is driving the quantum dots market in this region.

Breakdown of primary participant profiles:

By Company Type: Tier 1—24%, Tier 2—31%, and Tier 3—45%

By Designation: C-Level Executives—44%, Directors—19%, and Managers—37%

By Region: North America—38%, APAC—28%, Europe—26%, and RoW—8%

The key players operating in this market Nanosys (US), Nanoco (UK), QD Laser (Japan), NN-Labs (US), Ocean NanoTech (US), QD Vision (US), Quantum Material (US), Altair Nanotechnologies (US), and InVisage (US),

## Research Coverage

Various market segments have been covered in this report. These include segments such as offering, technology, end-user industry, and geography. The report also provides a detailed overview of the market across 4 main regions—North America, Europe, APAC, and RoW.

## Reasons to Buy the Report

This report includes statistics pertaining to the quantum dots market in terms of material, product type, vertical, and geography, along with their respective

market size.

The report details the major drivers, restraints, opportunities, and challenges pertaining to the quantum dots market.

The report includes illustrative segmentation, analysis, and forecast for the quantum dots market based on its segments and subsegments.

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## About

According to the new market research report "Quantum Dots Market by Product (QD Medical Devices, QD Solar Cells, QD Photodetector/QD Sensors, QD Lasers, QD Lighting, Batteries and Energy Storage Systems, QD Transistors, and QD Tags), Material, Vertical, and geography - Global Forecast to 2023", The quantum dots market is expected to grow from USD 2.57 Billion in 2018 to USD 8.47 Billion by 2023, at a CAGR of 26.97% between 2018 and 2023. Major drivers for the market are the increasing demand for quantum dots in high-quality display devices, growing implementation of quantum dots in numerous applications due to their miniature property, and rising adoption of energy-efficient and less or non-toxic quantum dots in solar cells and photovoltaics.

### **The Major Companies in the Quantum Dots Market Are:**

Nanosys (US),

Nanoco (UK),

QD Laser (Japan),

NN-Labs (US), and

Ocean NanoTech (US).

Other companies in this market are QD Vision (US), Quantum Material (US), Altair Nanotechnologies (US), and InVisage (US), among others.

### **Quantum dots market for QD displays to grow at highest CAGR during forecast period**

The market for QD displays is expected to grow at the highest CAGR between 2018 and 2023. QDs can be incorporated into a new-generation applications such as flat-panel TV screens, digital cameras, smartphones, gaming consoles, and personal digital assistant (PDA) devices. The increasing demand for displays with higher efficiency and enhanced color quality has exhibited the growth of QD displays.

## **Consumer vertical to hold largest size of quantum dots market during forecast period**

Of all the verticals, the consumer vertical is expected to hold the largest market size during the forecast period. The increasing demand for superior display technologies and energy-efficient solutions is likely to drive the quantum dot display market growth. In addition, the unique characteristics of quantum dots such as high brightness, pure color, and wavelength tenability enable display designers to customize a spectrum of light to maximize both the efficiency and color performance of any display for incredible new user experience.

## **APAC to hold largest market share and witness highest growth**

APAC is expected to hold the largest share of the quantum dots market between 2018 and 2023. Chinese, Japanese, and South Korean panel makers are investing more in producing more energy-efficient displays, which, in turn, also drives the quantum dots market in Asia Pacific. In addition, the use quantum dots in developing innovative products at affordable prices would create growth opportunities for the players in the quantum dots market in this region.

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