

Global Nano Quantum Dots (QD) Market Growth 2025-2031

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Abstracts

The global Nano Quantum Dots (QD) market size is predicted to grow from US\$ 329 million in 2025 to US\$ 815 million in 2031; it is expected to grow at a CAGR of 16.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Quantum dots are human-made Nano crystals made up from semiconducting material that can help in transporting electrons. These small semiconductor Nano particles have the ability to emit out light of myriad colors after UV light is incident on them. In this report, we collect data of pure Nano Quantum Dots.

Biosynthetic methods of quantum dots have attracted much attention because of their greenness, environmental protection, and good biocompatibility of products. The stability of perovskite quantum dots is higher than that of ordinary perovskite materials, and the crystal phase can be adjusted, which can be widely used in solar cells, light-emitting diodes, lasers, photodetectors and other fields. Cadmium is the most efficient raw material that can be used for the manufacturing of quantum dot. However, heavy metal contamination leads to environmental pollution and has adverse effects on human health. Using heavy metals in household products can lead to major health problems. Now many companies and research associations are producing cadmium-free quantum dots such as indium and zinc. Soon, cadmium-free quantum dots are expected to be widely available and are expected to dominate the market as a result of their safety, strong performance, and environmental benefits.

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

This Insight Report provides a comprehensive analysis of the global Nano Quantum Dots (QD) 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 Nano Quantum Dots (QD) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nano Quantum Dots (QD) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nano Quantum Dots (QD) 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 Nano Quantum Dots (QD).

This report presents a comprehensive overview, market shares, and growth opportunities of Nano Quantum Dots (QD) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

II-VI-semiconductors

III-V-semiconductors

Silicon (Si)

Segmentation by Application:

Medicine

Agriculture

Optoelectronics & Optical Components

Alternative Energy

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.

Nanoco Group Plc

Nanosys, Inc.

NN-Labs, LLC

QD Laser, Inc.

Samsung Electronics

Ocean NanoTech.

Altair Nanotechnologies Inc.

Quantum Material Corp.

OSRAM Licht AG

InVisage (Apple)

Nano Elements Source, LLC

Crystalplex Corp.

UbiQD

NanoPhotonica Inc.

Navillum Nanotechnologies

LG Display

Pacific Light Technologies

Avantama

Strem Chemicals Inc.

Quantum Solutions

American Elements

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nano Quantum Dots (QD) market?

What factors are driving Nano Quantum Dots (QD) market growth, globally and by region?

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

How do Nano Quantum Dots (QD) market opportunities vary by end market size?

How does Nano Quantum Dots (QD) break out by Type, by Application?

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