

Global Quantum Dots (QD) Market 2021-2031 by Offering (QD Products, QD Materials), Production Technology, Industry Vertical, and Region: Trend Forecast and Growth Opportunity

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Abstracts

Global quantum dots (QD) market will reach \$ 36,308.9 million by 2031, growing by 23.3% annually over 2021-2031, driven by the increasing demand for quantum dots in display devices, advancing features of quantum dots, and the diverse applications of quantum dots in various industries.

Highlighted with 65 tables and 88 figures, this 173-page report “Global Quantum Dots (QD) Market 2021-2031 by Offering (QD Products, QD Materials), Production Technology, Industry Vertical, and Region: Trend Forecast and Growth Opportunity” is based on a comprehensive research of the entire global quantum dots (QD) market and all its sub-segments through extensively detailed classifications. Profound analysis and assessment are generated from premium primary and secondary information sources with inputs derived from industry professionals across the value chain. The report is based on studies on 2019-2021 and provides forecast from 2022 till 2031 with 2021 as the base year. (Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

In-depth qualitative analyses include identification and investigation of the following aspects:

Market Structure

Growth Drivers

Restraints and Challenges

Emerging Product Trends & Market Opportunities

Porter's Fiver Forces

The trend and outlook of global market is forecast in optimistic, balanced, and conservative view by taking into account of COVID-19 and Russia-Ukraine conflict. The balanced (most likely) projection is used to quantify global quantum dots (QD) market in every aspect of the classification from perspectives of Offering, Production Technology, Industry Vertical, and Region.

Based on Offering, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

QD Products

QD Displays

QD LCDs/QDEFs (Quantum Dot Enhancement Films)

QD Color Filters

Self-Emitting QD TVs/True QLEDs

QD Medical Devices

QD Photodetectors/QD Sensors

QD Lasers

QD Lighting (LED) Solutions

Batteries and Energy Storage Systems

QD Solar Cells

QD Transistors

QD Chips and Tags

QD Materials

Cadmium-Based QD (Cadmium Selenide, Cadmium Sulphide and Cadmium Telluride)

Cadmium-Free QD (Indium Arsenide, Silicon, Graphene, Lead Sulphide and Perovskite Quantum Dots)

Based on Production Technology, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Colloidal Synthesis

Plasma Synthesis

Fabrication

Lithography

Electron-Beam Lithography

Soft Lithography

Stencil Lithography

Nanolithography

Photopatternable Array

Bio-Molecular Self-Assembly

Viral Assembly

Electrochemical Assembly

Bulk Manufacturing

By Industry Vertical, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Consumer Electronics

Corporate

Retail

Telecommunication

Healthcare and Medical

Biological Imaging

Cellular Labelling

DNA Labelling

QD-Based Cancer Diagnosis

Military and Defense

Manufacturing

Automotive and Transportation

Agriculture

Other Verticals

Geographically, the following regions together with the listed national/local markets are fully investigated:

North America (U.S., Canada, and Mexico)

Europe (Germany, UK, France, Spain, Italy, Netherlands, Rest of Europe; Rest of Europe is further segmented into Russia, Switzerland, Poland, Sweden, Belgium, Austria, Ireland, Norway, Denmark, and Finland)

APAC (Japan, China, South Korea, Australia, India, and Rest of APAC; Rest of APAC is further segmented into Malaysia, Singapore, Indonesia, Thailand, New Zealand, Vietnam, Taiwan, and Philippines)

South America (Brazil, Chile, Argentina, Rest of South America)

MEA (UAE?Saudi Arabia? South Africa and Rest of MEA)

For each aforementioned region and country, detailed analysis and data for annual revenue (\$ mn) are available for 2021-2031. The breakdown of all regional markets by country and split of each national market by Offering and Industry Vertical over the forecast years are also included.

The report also covers current competitive scenario and the predicted trend; and profiles key vendors including market leaders and important emerging players.

Selected Key Players:

3M Company

Crystalplex Corporation

Innolume GmbH

LG Display Co., Ltd.

Nanoco Group Plc

Nanoco Technologies Ltd.

NanoPhotonica Inc.

Nanosys Inc.

Navillum Nanotechnologies, Inc.

NN-LABS LLC

Ocean Nanotech LLC

Osram Licht AG

QD Laser, Inc.

Quantum Material Corporation

Quantum Solutions LLC

Samsung Electronics Co., Ltd.

Sony Corporation

UbiQD, Inc.

(Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

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NanoPhotonica Inc.
Nanosys Inc.
Navillum Nanotechnologies, Inc.
NN-LABS LLC
Ocean Nanotech LLC
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