

Global Quantum Dot Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Quantum Dot market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

Quantum dots (QDS), also known as semiconductor nanocrystals, are made up of a finite number of atoms with three dimensions on the nanometer scale. Quantum dots is spherical or spherical, commonly made of semiconductor materials (usually by ~ ? A IIB or IIIA ~ VA elements) made of 2 ~ 20 nm in diameter, stability of the nanoparticles. Quantum dots are an aggregation of atoms and molecules on the nanometer scale, which can be composed of either one kind of semiconductor material, such as IIB.Via group elements (such as CdS, CdSe, CdTe, ZnSe, etc.) or IIIa.VA group elements (such as InP, InAs, etc.), or two or more kinds of semiconductor materials. As a novel semiconductor nanomaterial, quantum dots have many unique nano properties. Due to the special small size structure of quantum dots, the quasi-continuous energy band evolves into a separate energy level structure similar to that of molecules, which leads to the special small size effect, quantum size effect, macroscopic quantum tunneling effect, electron confining effect and unique surface effect which are not available in bulk materials and molecular materials. Quantum dots also have good optical stability, wide excitation spectrum, narrow emission, large Stokes shift, good biocompatibility and long fluorescence lifetime. In addition, the most important feature of quantum dots is that they can change the wavelength of light emitted by changing their size and chemical composition. The special physical and chemical properties of quantum dots make them widely used in the fields of life science, quality detection, optoelectronics, solar cells and environmental science.

In the Chinese market, major producers include Quantum Materials, Samsung

Electronics (QD Vision) and Nanosys.

This report is a detailed and comprehensive analysis for global Quantum Dot market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Quantum Dot market size and forecasts, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (USD/Kg), 2020-2031

Global Quantum Dot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (USD/Kg), 2020-2031

Global Quantum Dot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (USD/Kg), 2020-2031

Global Quantum Dot market shares of main players, shipments in revenue (\$ Million), sales quantity (Kg), and ASP (USD/Kg), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Quantum Dot

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Quantum Dot market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Quantum Materials, Samsung Electronics (QD

Vision), Nanosys, Suzhou Xingshuo Nano Technology Co. Ltd, Xingzi (Shanghai) New Material Technology Development Co., Ltd, Najing Tech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Quantum Dot market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Cadmium-Free Quantum Dots

- Cadmium-Containing Quantum Dots

- Others (Metal Nanocrystals, Oxide Nanocrystals, etc.)

Market segment by Application

- Consumer Electronics

- Health Care

- Defence

- Industrial

- Other

Major players covered

- Quantum Materials

Samsung Electronics (QD Vision)

Nanosys

Suzhou Xingshuo Nano Technology Co. Ltd

Xingzi (Shanghai) New Material Technology Development Co., Ltd

Najing Tech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Quantum Dot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quantum Dot, with price, sales quantity, revenue, and global market share of Quantum Dot from 2020 to 2025.

Chapter 3, the Quantum Dot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quantum Dot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Quantum Dot market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Quantum Dot.

Chapter 14 and 15, to describe Quantum Dot sales channel, distributors, customers, research findings and conclusion.

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