

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

<https://marketpublishers.com/r/G9535EACAF7EEN.html>

Date: August 2025

Pages: 120

Price: US\$ 3,480.00 (Single User License)

ID: G9535EACAF7EEN

Abstracts

According to our (Global Info Research) latest study, the global Cadmium Selenide Quantum Dot market size was valued at US\$ 2819 million in 2024 and is forecast to a readjusted size of USD 12880 million by 2031 with a CAGR of 24.5% during review period.

When the semiconductor material is reduced to a certain critical size, the movement of electrons in three dimensions is limited, showing a quantum confinement effect. Such materials are called quantum dots. Cadmium selenide quantum dots are nuclear or shell fluorescent nanomaterials with CdSe as the core and hydrophobic ligand as the surface.

This report is a detailed and comprehensive analysis for global Cadmium Selenide 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 Cadmium Selenide Quantum Dot market size and forecasts, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/G), 2020-2031

Global Cadmium Selenide Quantum Dot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kg), and average selling prices

(US\$/G), 2020-2031

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

Global Cadmium Selenide Quantum Dot market shares of main players, shipments in revenue (\$ Million), sales quantity (Kg), and ASP (US\$/G), 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 Cadmium Selenide 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 Cadmium Selenide 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 Nanosys, Samsung Electronic(QD Vision), Sony, Nanografi Nano Technology, Cytodiagnosics, American Elements, NNCrystal US Corporation, Najing Technology Co, Xingshuo Nanotech Mesolight, Changzhou Huada Nano Material Technology, etc.

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

Market Segmentation

Cadmium Selenide 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

50-60%

60-70%

70-80%

Other

Market segment by Application

Display

Lighting

Solar Energy

Life Sciences

Other

Major players covered

Nanosys

Samsung Electronic(QD Vision)

Sony

Nanografi Nano Technology

Cytodiagnostics

American Elements

NNCrystal US Corporation

Najing Technology Co

Xingshuo Nanotech Mesolight

Changzhou Huada Nano Material Technology

Xiamen BOHR Technology

Xingzi New Material Technology

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 Cadmium Selenide Quantum Dot product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Cadmium Selenide 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 Cadmium Selenide 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 Cadmium Selenide Quantum Dot.

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

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