

# Quantum Dot - Global Market Outlook (2017-2023)

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# **Abstracts**

According to Stratistics MRC, the Global Quantum Dots Market is accounted for \$734.30 million in 2016 and is expected to reach \$22066.36 million by 2023 growing at a CAGR of 62.6 % during the forecast period. Factors such as rising demand for optimized devices with better performance and resolution quality and ability to emit brighter light increases energy efficiency are fueling the market growth. However, huge price of the technology, small price of competing technologies and use of heavy metals as raw material are hampering the market growth.

A quantum dot is an element of matter so small that the addition or removal of an electron fluctuations its properties in some beneficial way. Quantum dots usually take dimensions measured in nanometers, where one nanometer is 10-9 meter or a millionth of a millimeter.

By technology, electrochemical assembly is a method to produce quantum dots includes electrochemical processes. It uses an ionic reaction at the edge among a metal and an electrolyte to form a pattern of impulsive nanocrystal formation. The metal that transmits the pattern is then used in a procedure of mesa etching in the development of the quantum dots. Asia Pacific is expected to grow at a fastest CAGR during the forecast period attributed to huge technological advancements in the region.

Some of the key players in Quantum Dots Market include Dow Chemical Company, Ocean NanoTech LLC, QD Vision, Inc., Altair Nanotechnologies, Inc., Thermo Fisher Scientific Inc., Quantum Materials Corporation, Sony Corporation, Nanoco Technologies Ltd., InVisage Technologies, Inc. Nexxus Lighting, QD Laser, Inc., Samsung Electronics Co. Ltd., Evident Technologies, Inc., LG Display Co. Ltd and Nanosys, Inc.

Product Types Covered:



	QD Sensors
	QD Lasers
	QD Lighting
	QD Solar Cells
	QD Medical Devices
	QD Light-emitting Devices (LED) Displays
	QD Chips
Applica	ations Covered:
	Quantum Optics
	Healthcare
	Optoelectronics
	QD based security & surveillance
	Renewable Energy
Techno	ologies Covered:
	Fabrication
	Bulk-manufacturing
	Colloidal Synthesis
	Electrochemical assembly
	Cadmium-free quantum dots (CFQD)



# Viral Assembly Components Covered: Tube Film **LED** Materials Covered: Silicon (Si) Cadmium Telluride (CdTe) Cadmium Selenide (CdSe) Indium Arsenide (InAs) Graphene Cadmium Sulfide (CdS) Regions Covered: North America US Canada Mexico

Europe



G	ermany
U	.K
lta	aly
F	rance
S	pain
R	est of Europe
Asia Pac	fic
Ja	apan
С	hina
In	dia
А	ustralia
N	ew Zealand
S	outh Korea
R	est of Asia Pacific
South An	nerica
А	rgentina
В	razil
С	hile
R	est of South America



Middle East & Africa		
	Saudi Arabia	
	UAE	
	Qatar	
	South Africa	
	Rest of Middle East & Africa	
180		
What our repo	rt offers:	
Market	share assessments for the regional and country level segments	
Market	t share analysis of the top industry players	
Strategic recommendations for the new entrants		
	Market forecasts for a minimum of 7 years of all the mentioned segments, sub segments and the regional markets	
	t Trends (Drivers, Constraints, Opportunities, Threats, Challenges, ment Opportunities, and recommendations)	
Strateç estima	gic recommendations in key business segments based on the market tions	
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**Note:** Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above



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