

# Global Quantum Dot Infrared Photodetectors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Quantum Dot Infrared Photodetectors market size was valued at US\$ 319 million in 2025 and is forecast to a readjusted size of US\$ 798 million by 2032 with a CAGR of 14.0% during review period.

In 2025, global Quantum Dot Infrared Photodetectors output reached about 5 million units and global capacity of around 8 million units. The average unit price is about USD 62, with gross margins near 39%. Quantum Dot Infrared Photodetectors (QDIPs) are semiconductor photodetectors that utilize quantum dots—nanoscale semiconductor crystals with discrete energy levels—to absorb infrared (IR) radiation and convert it into electrical signals. These devices operate in the short-wave (SWIR), mid-wave (MWIR), and long-wave infrared (LWIR) spectral ranges and are widely used in thermal imaging, night vision, environmental sensing, medical diagnostics, industrial monitoring, and defense surveillance systems. Their key advantages include high sensitivity, tunable spectral response, low dark current, and compatibility with standard semiconductor fabrication processes. The supply chain begins with upstream raw materials and nanomaterial synthesis, including semiconductor compounds such as lead sulfide (PbS), lead selenide (PbSe), mercury telluride (HgTe), indium arsenide (InAs), cadmium selenide (CdSe), and other III–V or II–VI materials, along with precursors, solvents, and ligands used in colloidal quantum dot synthesis. The midstream stage involves quantum dot fabrication, thin-film deposition, and device integration, including epitaxial growth or colloidal synthesis, photolithography, wafer processing, and integration with CMOS readout integrated circuits (ROICs) and focal plane arrays. The downstream segment includes infrared imaging modules, thermal cameras, spectroscopy instruments, autonomous vehicle sensors, aerospace systems, security monitoring devices, and industrial inspection equipment, where QDIPs are incorporated into advanced sensing

and imaging platforms.

This report is a detailed and comprehensive analysis for global Quantum Dot Infrared Photodetectors 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 Infrared Photodetectors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Dot Infrared Photodetectors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Dot Infrared Photodetectors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Dot Infrared Photodetectors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **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 Infrared Photodetectors

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 Infrared Photodetectors 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 SWIR Vision Systems, Emberion, QDI Systems, Aeluma, Hamamatsu Photonics, Teledyne Technologies, Leonardo DRS, SemiConductor Devices, Excelitas Technologies, Allied Vision

Technologies, etc.

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

## **Market Segmentation**

Quantum Dot Infrared Photodetectors market is split by Type and by Application. For the period 2021-2032, 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

Short-Wave Infrared (SWIR) QDIPs

Mid-Wave Infrared (MWIR) QDIPs

Long-Wave Infrared (LWIR) QDIPs

Broadband Infrared QDIPs

### Market segment by Quantum Dot Material

Lead Sulfide (PbS)

Lead Selenide (PbSe)

Mercury Telluride (HgTe)

Cadmium Selenide (CdSe)

Indium Arsenide (InAs)

Gallium Arsenide (GaAs)

### Market segment by Application

Aerospace & Defense

Security & Surveillance

Automotive

Industrial

Environmental

Agricultural

Medical

Others

#### Major players covered

SWIR Vision Systems

Emberion

QDI Systems

Aeluma

Hamamatsu Photonics

Teledyne Technologies

Leonardo DRS

SemiConductor Devices

Excelitas Technologies

Allied Vision Technologies

New Imaging Technologies

Princeton Infrared Technologies

Himax Technologies

OmniVision Technologies

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 Infrared Photodetectors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quantum Dot Infrared Photodetectors, with price, sales quantity, revenue, and global market share of Quantum Dot Infrared Photodetectors from 2021 to 2026.

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

Chapter 4, the Quantum Dot Infrared Photodetectors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Quantum Dot Infrared Photodetectors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Infrared Photodetectors.

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

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