

Global Compound Semiconductor Photosensors 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 Compound Semiconductor Photosensors market size was valued at US\$ 198 million in 2024 and is forecast to a readjusted size of USD 242 million by 2031 with a CAGR of 3.0% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Compound semiconductor photosensors are highly specialized optoelectronic devices that utilize compound semiconductors as their active sensing materials. Compound semiconductors are composed of two or more elements from different groups of the periodic table, such as gallium arsenide (GaAs), indium phosphide (InP), or cadmium telluride (CdTe), among others. These materials possess unique electronic and optical properties that make them well-suited for detecting and converting light into an electrical signal. When light of a specific wavelength and intensity impinges on the compound semiconductor within the photosensor, it excites electrons from the valence band to the conduction band, creating electron-hole pairs. This generation of charge carriers leads to a change in the electrical conductivity of the semiconductor, which can be measured as an electrical current or voltage output. Compound semiconductor photosensors are known for their high sensitivity, fast response times, and broad spectral range, enabling them to detect various forms of electromagnetic radiation, from ultraviolet to infrared light. They find applications in diverse fields, including optical communication systems, environmental monitoring, medical diagnostics, and industrial sensing, where accurate and reliable light detection is crucial.

This report is a detailed and comprehensive analysis for global Compound Semiconductor Photosensors 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 Compound Semiconductor Photosensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Compound Semiconductor Photosensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Compound Semiconductor Photosensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Compound Semiconductor Photosensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Compound Semiconductor Photosensors
- 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 Compound Semiconductor Photosensors 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 Hamamatsu Photonics, Kyosemi, Dexerials, Excelitas, Osi Optoelectronics, Edmund Optics, PerkinElmer, Thorlab, First

Sensor, MACOM, etc.

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

Market Segmentation

Compound Semiconductor Photosensors 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

InGaAs PIN Photodiodes

InGaAs APD

InAs, InAsSb and InSb Photovoltaic Detectors

Others

Market segment by Application

Optical Communications

Military and Security

Medical Imaging

Industrial Inspection

Others

Major players covered

Hamamatsu Photonics

Kyosemi

Dexerials

Excelitas

Osi Optoelectronics

Edmund Optics

PerkinElmer

Thorlab

First Sensor

MACOM

Sunboon

Qphotonics

Sensors Unlimited

Laser Components

Albis Optoelectronics

GPD Optoelectronics

Teledyne Judson

SCD

VIGO Photonics

Ushio Europe BV

Discovery Semiconductors, Inc

Marktech Optoelectronics Inc

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 Compound Semiconductor Photosensors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Compound Semiconductor Photosensors 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 Compound Semiconductor Photosensors 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 Compound Semiconductor Photosensors.

Chapter 14 and 15, to describe Compound Semiconductor Photosensors sales channel, distributors, customers, research findings and conclusion.

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