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Global Compound Photodetector Market Growth 2025-2031

https://marketpublishers.com/r/G5090AA45C48EN.html
Date: August 2025
Pages: 157
Price: US$ 3,660.00 (Single User License)
ID: G5090AA45C48EN

Abstracts

The global Compound Photodetector market size is predicted to grow from US$ 193 million in 2025 to US$ 233 million in 2031; it is expected to grow at a CAGR of 3.2% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A compound photodetector is a type of optoelectronic device that is fabricated using compound semiconductor materials, which are composed of two or more elements. These materials, such as InGaAs (indium gallium arsenide), GaAs (gallium arsenide), InAs (indium arsenide), and InSb (indium antimonide), among others, are carefully engineered to possess specific optical and electrical properties. The compound photodetector operates by absorbing incident light photons within a particular wavelength range, depending on the semiconductor composition. When photons are absorbed, they excite electrons in the semiconductor, creating electron-hole pairs. These charge carriers are then separated and collected by the device's electrodes, generating an electrical signal that can be measured and processed. Compound photodetectors are prized for their high sensitivity, fast response times, and ability to detect light in specific spectral regions, such as the short-wave infrared (SWIR) and mid-wave infrared (MWIR) bands. They find extensive applications in various fields, including optical communication systems, where they convert optical signals into electrical signals; remote sensing for detecting objects and analyzing the environment; medical imaging for non-invasive diagnostics; and industrial inspection for quality control and defect detection.

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United States market for Compound Photodetector is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Compound Photodetector is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Compound Photodetector is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Compound Photodetector players cover Hamamatsu Photonics, Kyosemi, Dexerials, Excelitas, Osi Optoelectronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Compound Photodetector Industry Forecast” looks at past sales and reviews total world Compound Photodetector sales in 2024, providing a comprehensive analysis by region and market sector of projected Compound Photodetector sales for 2025 through 2031. With Compound Photodetector sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Compound Photodetector industry.

This Insight Report provides a comprehensive analysis of the global Compound Photodetector landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Compound Photodetector portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Compound Photodetector market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Compound Photodetector and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Compound Photodetector.

This report presents a comprehensive overview, market shares, and growth opportunities of Compound Photodetector market by product type, application, key

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manufacturers and key regions and countries.

Segmentation by Type:

MWIR Photodetectors

APDs

Others

Segmentation by Application:

Optical Communication

Military and Security

Medical Imaging

Industrial Inspection

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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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

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Discovery Semiconductors, Inc

Marktech Optoelectronics Inc

Key Questions Addressed in this Report

What is the 10-year outlook for the global Compound Photodetector market?
What factors are driving Compound Photodetector market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Compound Photodetector market opportunities vary by end market size?
How does Compound Photodetector break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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