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Global Silicon Photodetectors Market Growth 2025-2031

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Abstracts

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The global Silicon Photodetectors market size is predicted to grow from US$ 163 million in 2025 to US$ 247 million in 2031; it is expected to grow at a CAGR of 7.2% from 2025 to 2031.

Silicon-based photodetectors refer to silicon drift detectors (SDD) and silicon photomultipliers (SiPM) in this report.

Global Silicon-Based Photodetector key players include Hamamatsu, ON Semiconductor, Broadcom, First Sensor, AdvanSiD, etc. Global top five manufacturers hold a share about 75%.

North America is the largest market, with a share about 40%, followed by China, and Europe, both have a share over 35 percent. In terms of product, Silicon Photomultiplier is the largest segment, with a share over 80%. And in terms of application, the largest application is Aerospace and Defense, followed by Medical and Biotechnology, Industrial, etc.

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

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This Insight Report provides a comprehensive analysis of the global Silicon Photodetectors 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 Silicon Photodetectors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Photodetectors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Photodetectors 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 Silicon Photodetectors.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Photodetectors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Silicon Drift Detector (SDD)

Silicon Photomultiplier (SiPM)

Segmentation by Application:

Aerospace and Defense

Medical and Biotechnology

Industrial

Physics Research

Others

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa

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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.

Hamamatsu

ON Semiconductor

Broadcom

First Sensor

KETEK GmbH

Mirion Technologies

PNDetector

AdvanSiD

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Photodetectors market?

What factors are driving Silicon Photodetectors market growth, globally and by region?

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Which technologies are poised for the fastest growth by market and region?

How do Silicon Photodetectors market opportunities vary by end market size?

How does Silicon Photodetectors break out by Type, by Application?

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