

Global Silicon Based Photodetectors Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/S32D3838D258EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: S32D3838D258EN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Silicon Based Photodetectors market size will reach 177.14 Million USD in 2025 and is projected to reach 270.43 Million USD by 2032, with a CAGR of 6.23% (2025-2032). Notably, the China Silicon Based Photodetectors market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Silicon-based photodetectors are semiconductor devices capable of converting incident light into electrical signals. They are constructed using silicon as the primary semiconductor material due to its abundance, cost-effectiveness, and compatibility with integrated circuit technology. Silicon photodetectors can operate across a wide range of wavelengths, spanning from ultraviolet (UV) to near-infrared (NIR), depending on their design and configuration. Common types of silicon-based photodetectors include photodiodes, phototransistors, and avalanche photodiodes (APDs). Photodiodes are widely used for general-purpose light detection applications due to their simplicity, fast response times, and high sensitivity. Phototransistors, which incorporate a bipolar junction transistor (BJT) structure, offer amplification capabilities, making them suitable for low-light detection. APDs, on the other hand, utilize avalanche multiplication to achieve high sensitivity and gain for detecting weak optical signals. Silicon-based photodetectors find applications in various fields, including optical communications, sensing, imaging, and spectroscopy, contributing to advancements in technology and scientific research.

The major global manufacturers of Silicon Based Photodetectors include Hamamatsu, ON Semiconductor, Broadcom, First Sensor, KETEK, Mirion Technologies, AdvanSiD, PNDetector, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Silicon Based Photodetectors. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Silicon Based Photodetectors market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Silicon Based Photodetectors market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Silicon Based Photodetectors industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Silicon Based Photodetectors Include:

Hamamatsu

ON Semiconductor

Broadcom

First Sensor

KETEK

Mirion Technologies

AdvanSiD

PNDetector

Silicon Based Photodetectors Product Segment Include:

Silicon Drift Detector (SDD)

Silicon Photomultiplier (SiPM)

Silicon Based Photodetectors Product Application Include:

Aerospace and Defense

Medical and Biotechnology

Industrial

Others

Chapter Scope

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