

Global Si Photodiodes Market Growth 2025-2031

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Abstracts

The global Si Photodiodes market size is predicted to grow from US\$ 368 million in 2025 to US\$ 551 million in 2031; it is expected to grow at a CAGR of 7.0% 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.

The photodiode is a light-receiving element that converts the intensity of light into electric current when irradiating light. The detectable wavelength range and sensitivity will vary according to the material of the semiconductor element. When the material is silicon (Si), it has sensitivity to ultraviolet, visible, and infrared (~1100nm) wavelength ranges.

Global Silicon Photodiodes key players include Hamamatsu Photonics, Excelitas Technologies, OSI Optoelectronics, NJR, Honeywell, etc. Global top five manufacturers hold a share over 80%.

North America is the largest market, with a share over 30%, followed by Europe and China, have a share about 35 percent. In terms of product, Ceramic Package is the largest segment, with a share over 35%. And in terms of application, the largest application is Factory Automation Equipment, followed by Instrumentation, Medical Instruments, etc.

LP Information, Inc. (LPI) ' newest research report, the "Si Photodiodes Industry Forecast" looks at past sales and reviews total world Si Photodiodes sales in 2024, providing a comprehensive analysis by region and market sector of projected Si Photodiodes sales for 2025 through 2031. With Si Photodiodes sales broken down by

region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Si Photodiodes industry.

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

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

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

Segmentation by Type:

Si Photodiode

Si PIN Photodiode

Si APD

Segmentation by Application:

Optical Power Meters

LCD Backlight Color Adjustment

Sunlight Sensors

Septrophotometers

Others

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

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 Photonics

Kyosemi

OSI Optoelectronics

Pioneer Micro Technology

Thorlabs Inc.

Laser Components

Illinois Tool Works Inc. (Opto Diode)

Edmund Optics

Excelitas Technologies

AP Technologies

First Sensor

Luna Optoelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Si Photodiodes market?

What factors are driving Si Photodiodes market growth, globally and by region?

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

How do Si Photodiodes market opportunities vary by end market size?

How does Si Photodiodes break out by Type, by Application?

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