

Global Silicon Photodiode Pyranometers Market Growth 2026-2032

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Abstracts

The global Silicon Photodiode Pyranometers market size is predicted to grow from US\$ 90.00 million in 2025 to US\$ 140 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

In 2025, global Silicon Photodiode Pyranometer output reached about 420,000 units and global capacity of around 480,000 units. The average price is about USD 220 per unit, with gross margins near 32%. Silicon Photodiode Pyranometers are solar radiation measurement instruments that use silicon photodiode sensors to detect and quantify global solar irradiance, typically within the spectral range of approximately 400-1100 nm. Unlike thermopile pyranometers, they provide fast response times, high sensitivity, low power consumption, and cost-effective monitoring, making them widely used in photovoltaic (PV) performance monitoring, meteorological stations, agricultural research, environmental monitoring, and solar resource assessment. The supply chain begins with upstream suppliers of high-purity silicon wafers, photodiodes, optical diffusers, filters, electronic components, and weather-resistant housings. Midstream manufacturers integrate these components into calibrated pyranometer systems, incorporating signal conditioning electronics, temperature compensation circuits, data logging interfaces, and protective enclosures to ensure long-term outdoor operation. Downstream customers include solar power plant operators, weather monitoring agencies, agricultural institutions, environmental research organizations, universities, smart city projects, and industrial energy management providers that use the instruments for solar irradiance measurement, PV system optimization, climate studies, and renewable energy forecasting.

United States market for Silicon Photodiode Pyranometers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Silicon Photodiode Pyranometers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Silicon Photodiode Pyranometers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Silicon Photodiode Pyranometers players cover Kipp & Zonen, Hukseflux, EKO Instruments, Apogee Instruments, Delta OHM, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Photodiode Pyranometers Industry Forecast" looks at past sales and reviews total world Silicon Photodiode Pyranometers sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Photodiode Pyranometers sales for 2026 through 2032. With Silicon Photodiode Pyranometers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Photodiode Pyranometers industry.

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

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

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

Segmentation by Type:

Low-Range Type

Standard-Range Type

High-Range Type

Segmentation by Response Time:

10 ms

Segmentation by Application:

Solar Energy Plants

Weather Monitoring

Environmental Research

Greenhouse Operations

Building Energy Management

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.

Kipp & Zonen

Hukseflux

EKO Instruments

Apogee Instruments

Delta OHM

Middleton Solar Instruments

Adolf Thies

Geonica

LI-COR Biosciences

LSI Lastem

Environmental Measurements

Yankee Environmental Systems

Skye Instruments

Solar Light Company

Shenzhen X Photoelectric Technology

Key Questions Addressed in this Report

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

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

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

How do Silicon Photodiode Pyranometers market opportunities vary by end market size?

How does Silicon Photodiode Pyranometers break out by Type, by Application?

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