

Global Silicon Photodiode Pyranometers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Photodiode Pyranometers market size was valued at US\$ 94.66 million in 2025 and is forecast to a readjusted size of US\$ 144 million by 2032 with a CAGR of 6.2% during review period.

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.

This report is a detailed and comprehensive analysis for global Silicon Photodiode

Pyranometers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Silicon Photodiode Pyranometers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Photodiode Pyranometers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Photodiode Pyranometers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Photodiode Pyranometers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silicon Photodiode Pyranometers

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Photodiode Pyranometers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kipp & Zonen, Hukseflux, EKO

Instruments, Apogee Instruments, Delta OHM, Middleton Solar Instruments, Adolf Thies, Geonica, LI-COR Biosciences, LSI Lastem, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Silicon Photodiode Pyranometers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Low-Range Type

Standard-Range Type

High-Range Type

Market segment by Response Time

10 ms

Market segment by Application

Solar Energy Plants

Weather Monitoring

Environmental Research

Greenhouse Operations

Building Energy Management

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silicon Photodiode Pyranometers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Photodiode Pyranometers, with price, sales quantity, revenue, and global market share of Silicon Photodiode Pyranometers from 2021 to 2026.

Chapter 3, the Silicon Photodiode Pyranometers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Photodiode Pyranometers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Silicon Photodiode Pyranometers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five

Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Photodiode Pyranometers.

Chapter 14 and 15, to describe Silicon Photodiode Pyranometers sales channel, distributors, customers, research findings and conclusion.

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