

Global Silicon Photodiode Pyranometers Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF7EF20BB4F2EN.html>

Date: July 2026

Pages: 121

Price: US\$ 4,480.00 (Single User License)

ID: GF7EF20BB4F2EN

Abstracts

The global Silicon Photodiode Pyranometers market size is expected to reach \$ 144 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global Silicon Photodiode Pyranometers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Photodiode Pyranometers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicon Photodiode Pyranometers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Photodiode Pyranometers total production and demand, 2021-2032, (K Units)

Global Silicon Photodiode Pyranometers total production value, 2021-2032, (USD Million)

Global Silicon Photodiode Pyranometers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Silicon Photodiode Pyranometers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Silicon Photodiode Pyranometers domestic production, consumption, key domestic manufacturers and share

Global Silicon Photodiode Pyranometers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Silicon Photodiode Pyranometers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Silicon Photodiode Pyranometers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Silicon Photodiode Pyranometers market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Silicon Photodiode Pyranometers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Silicon Photodiode Pyranometers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Photodiode Pyranometers Market, Segmentation by Type:

Low-Range Type

Standard-Range Type

High-Range Type

Global Silicon Photodiode Pyranometers Market, Segmentation by Response Time:

10 ms

Global Silicon Photodiode Pyranometers Market, Segmentation by Application:

Solar Energy Plants

Weather Monitoring

Environmental Research

Greenhouse Operations

Building Energy Management

Others

Companies Profiled:

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 Answered:

1. How big is the global Silicon Photodiode Pyranometers market?
2. What is the demand of the global Silicon Photodiode Pyranometers market?
3. What is the year over year growth of the global Silicon Photodiode Pyranometers market?
4. What is the production and production value of the global Silicon Photodiode Pyranometers market?
5. Who are the key producers in the global Silicon Photodiode Pyranometers market?
6. What are the growth factors driving the market demand?

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