

Global Pyranometer Market Growth 2026-2032

<https://marketpublishers.com/r/G9AF7598C71DEN.html>

Date: July 2026

Pages: 109

Price: US\$ 3,660.00 (Single User License)

ID: G9AF7598C71DEN

Abstracts

The global Pyranometer market size is predicted to grow from US\$ 205 million in 2025 to US\$ 330 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

In 2025, global Pyranometer output reached about 500,000 units and global capacity of around 600,000 units. The average price is about USD 420 per unit, with gross margins near 38%. A Pyranometer is a radiometric instrument used to measure global solar irradiance (the total solar energy received from the sun and sky) on a planar surface, typically expressed in watts per square meter (W/m²). It is widely used in meteorology, solar energy systems, climatology, agriculture, environmental monitoring, and photovoltaic (PV) power plant performance assessment. A typical pyranometer consists of a thermopile or photodiode sensor, optical glass domes, signal conditioning electronics, housing materials, and calibration components. The supply chain begins with upstream suppliers of optical glass, semiconductor materials, thermopile elements, precision metal housings, electronic components, and calibration standards. Midstream manufacturers design, assemble, calibrate, and certify pyranometers according to international standards such as ISO 9060 and WMO requirements. Downstream customers include solar power developers, PV plant operators, weather stations, research institutions, agricultural monitoring organizations, environmental agencies, aerospace companies, and industrial energy management providers that utilize solar radiation data for resource assessment, system optimization, weather forecasting, and climate research.

The global pyranometer market is experiencing steady growth, primarily driven by the rapid expansion of solar photovoltaic (PV) installations worldwide and increasing investments in renewable energy infrastructure. As utility-scale solar farms, commercial solar projects, and distributed PV systems continue to proliferate, demand for accurate solar irradiance measurement has risen significantly for applications such as resource

assessment, performance monitoring, energy yield forecasting, and compliance with international standards. The market is witnessing a clear shift toward high-accuracy ISO 9060 Class A pyranometers, particularly in large-scale solar projects where precise performance ratio calculations and bankability assessments are critical. At the same time, manufacturers are increasingly replacing traditional analog instruments with digital pyranometers featuring RS-485, Modbus RTU, SDI-12, and other smart communication protocols that enable seamless integration with SCADA systems, cloud-based analytics platforms, and remote monitoring networks. Another major trend is the emergence of smart pyranometers equipped with onboard diagnostics, tilt sensors, temperature compensation, ventilation and heating systems, and predictive maintenance capabilities, helping reduce operational costs and improve long-term measurement reliability. The growing adoption of bifacial solar modules is also driving demand for spectrally flat, fast-response thermopile pyranometers capable of accurately measuring both direct and reflected solar radiation. Furthermore, manufacturers are focusing on extending calibration intervals, improving environmental durability, and enhancing resistance to dust, humidity, frost, and other harsh outdoor conditions. While solar energy remains the largest application segment, pyranometers are increasingly being used in meteorological monitoring, climate research, precision agriculture, greenhouse management, building energy efficiency studies, and environmental observation networks. Regionally, Asia-Pacific is emerging as the fastest-growing market due to extensive solar power deployment in China, India, Southeast Asia, and Australia. Overall, the industry is evolving from standalone radiation measurement devices toward intelligent, connected sensing platforms that support digital asset management and real-time energy performance optimization.

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

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

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

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

Segmentation by Type:

Thermopile Pyranometer

Photodiode Pyranometer

Segmentation by Response Time:

15 s

Segmentation by Sensitivity:

15 $\mu\text{V}/(\text{W}/\text{m}^2)$

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

Adolf Thies

Geonica

LI-COR

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 Pyranometer market?

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

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

How do Pyranometer market opportunities vary by end market size?

How does Pyranometer break out by Type, by Application?

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