

Global Total Solar Radiation Pyranometer Market Growth 2026-2032

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Abstracts

The global Total Solar Radiation Pyranometer market size is predicted to grow from US\$ 372 million in 2025 to US\$ 555 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

A total solar radiation detector is a precision sensing device designed to measure the total solar radiation energy received per unit area. Typically based on thermopile or silicon photodetector technologies, these instruments are widely utilized in fields such as meteorological observation, photovoltaic power generation performance assessment, agro-ecological monitoring, and climate research. Their core function involves performing high-precision, continuous, or instantaneous measurements of global horizontal solar irradiance, and outputting standardized radiation data. The upstream segment of the total solar radiation detector industry chain comprises core components such as thermopile sensors, optical domes, radiation filters, high-precision glass covers, signal conditioning circuits, and data acquisition modules. The midstream segment encompasses sensor assembly, optical calibration, signal processing integration, and housing structure design?processes critical for ensuring measurement accuracy and environmental stability. Downstream applications span meteorological agencies, solar power stations, agricultural monitoring systems, environmental research institutions, and climate observation networks. Ancillary services include equipment installation, calibration, maintenance, and data validation, all aimed at ensuring long-term measurement accuracy, system reliability, and effective integration with meteorological data platforms. In 2025, the global production volume of total solar radiation detectors is projected to reach approximately 135,714 units, with a global average market unit price of approximately US\$2,800. The gross profit margins of key enterprises within this industry typically range between 38% and 55%. Also in 2025, the global production capacity for total solar radiation detectors is estimated to be approximately 182,857

units.

United States market for Total Solar Radiation Pyranometer 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 Total Solar Radiation Pyranometer 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 Total Solar Radiation Pyranometer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Total Solar Radiation Pyranometer players cover Kipp & Zonen, Hukseflux, EKO Instruments, Apogee Instruments, LI-COR, 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 "Total Solar Radiation Pyranometer Industry Forecast" looks at past sales and reviews total world Total Solar Radiation Pyranometer sales in 2025, providing a comprehensive analysis by region and market sector of projected Total Solar Radiation Pyranometer sales for 2026 through 2032. With Total Solar Radiation Pyranometer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Total Solar Radiation Pyranometer industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Total Solar Radiation 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 Total Solar Radiation

Pyranometer.

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

Segmentation by Type:

Thermopile Pyranometer

Silicon Photodiode Pyranometer

Spectral Pyranometer

Secondary Standard Pyranometer

Segmentation by Time Response Performance:

Fast Response: $t < 5s$

Standard Response: $5s < t < 20s$

Slow Response: $t > 20s$

Segmentation by Application:

PV Power Plant Monitoring

Agricultural Radiation Analysis

Environmental Impact Assessment

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

LI-COR

Eppley Laboratory

Thies Clima

Lufft

Vaisala

Yigood

Key Questions Addressed in this Report

What is the 10-year outlook for the global Total Solar Radiation Pyranometer market?

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

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

How do Total Solar Radiation Pyranometer market opportunities vary by end market size?

How does Total Solar Radiation Pyranometer break out by Type, by Application?

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