

Global Shortwave Radiation Sensor Market Growth 2026-2032

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Abstracts

The global Shortwave Radiation Sensor market size is predicted to grow from US\$ 162 million in 2025 to US\$ 251 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

A shortwave radiation sensor is an environmental and energy monitoring instrument used to measure solar shortwave radiation energy. Its core function is to capture global solar irradiance, diffuse irradiance, plane-of-array irradiance, albedo-related radiation, or sunshine status data generated by specific algorithms on a horizontal plane, tilted plane, or equipment mounting plane, and convert these measurements into millivolt, voltage, current, RS485 Modbus, SDI-12, or IoT communication signals. These products typically adopt technical approaches such as thermopile blackbody absorption, silicon photodetection, optical domes, diffusers, temperature compensation, leveling adjustment, anti-condensation heating, digital diagnostics, and factory calibration. Common delivery forms include standalone probes, smart digital sensors, monitoring kits with data loggers, and integrated weather-station modules. Major customers come from photovoltaic plant performance assessment, meteorological and climate observation, agricultural and ecological monitoring, hydrological evapotranspiration research, building energy management, material aging testing, and environmental research. Their value lies in providing continuous and traceable solar radiation data that can be used for model calculations, thereby supporting power-generation efficiency assessment, resource evaluation, equipment operation and maintenance, crop growth analysis, and environmental process research.

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

Global key Shortwave Radiation Sensor players cover OTT HydroMet B.V., Hukx B.V., EKO Instruments Co., Ltd., Apogee Instruments, Inc., Campbell Scientific, Inc., 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 "Shortwave Radiation Sensor Industry Forecast" looks at past sales and reviews total world Shortwave Radiation Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Shortwave Radiation Sensor sales for 2026 through 2032. With Shortwave Radiation Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Shortwave Radiation Sensor industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Shortwave Radiation Sensor and breaks down the forecast by Detection Principle, 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 Shortwave Radiation Sensor.

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

Segmentation by Detection Principle:

Thermopile

Silicon Photovoltaic

Other

Segmentation by Precision Grade:

Class A

Class B

Class C

Other

Segmentation by Output Interface:

Passive Millivolt Output

Analog Voltage Output

Analog Current Output

RS485 Modbus Output

SDI-12 Output

Wireless IoT Output

Other

Segmentation by Application:

Photovoltaic Plant Performance Monitoring

Meteorological and Climate Observation

Agricultural Ecological and Hydrological Monitoring

Building Energy Management

Material Aging and Environmental Testing

Other

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.

OTT HydroMet B.V.

Hukx B.V.

EKO Instruments Co., Ltd.

Apogee Instruments, Inc.

Campbell Scientific, Inc.

Delta-T Devices Ltd.

Onset Computer Corporation

METER Group, Inc.

NRG Systems, Inc.

LI-COR Environmental

LAMBRECHT meteo GmbH

Adolf Thies GmbH & Co. KG

Senseca Italy S.r.l.

Solar Light Company, LLC

IMT Technology GmbH

Skye Instruments Ltd.

Hunan Rika Electronic Tech Co., Ltd.

Shandong Renke Control Technology Co., Ltd.

Shandong Tianhe Environment Technology Co., Ltd.

Sseed Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Shortwave Radiation Sensor market?

What factors are driving Shortwave Radiation Sensor market growth, globally and by region?

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

How do Shortwave Radiation Sensor market opportunities vary by end market size?

How does Shortwave Radiation Sensor break out by Detection Principle, by Application?

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