

Global Photosynthetically Active Radiation Sensor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Photosynthetically Active Radiation Sensor market size was valued at US\$ 3073 million in 2024 and is forecast to a readjusted size of USD 5681 million by 2031 with a CAGR of 9.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The photosynthetically active radiation sensor is a precision instrument used to measure photosynthetically active radiation in the spectral range of 400~700 nanometers (nm). Photosynthetically active radiation, referred to as PAR, refers to the solar radiation energy that can be absorbed and utilized by green plants for photosynthesis. The radiation energy within this specific wavelength range plays a vital role in regulating the growth, development, morphological construction and metabolic processes of plants.

This report is a detailed and comprehensive analysis for global Photosynthetically Active Radiation Sensor 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 Photosynthetically Active Radiation Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Photosynthetically Active Radiation Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Photosynthetically Active Radiation Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Photosynthetically Active Radiation Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Photosynthetically Active Radiation Sensor
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 Photosynthetically Active Radiation Sensor 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 Vernier, Apogee Instruments, Inc., Darrera, RIKa Sensor, Shandong Renke Control Technology Co, Aranet, HOBO, Decentlab GmbH, YSI, Sper Scientific, etc.

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

Market Segmentation

Photosynthetically Active Radiation Sensor market is split by Type and by Application. For the period 2020-2031, 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

Response Speed?1 Second

Response Speed?1 Second

Market segment by Application

Agriculture

Environmental Monitoring

Others

Major players covered

Vernier

Apogee Instruments, Inc.

Darrera

RIKA Sensor

Shandong Renke Control Technology Co

Aranet

HOB0

Decentlab GmbH

YSI

Sper Scientific

SenTec

Changsha Zoko

Sea-Bird Scientific

Dataflow Systems Limited

Munro Instruments Limited

METER

Geo-matching

Beijing Ecotek Technology Company Limited

LI-COR, Inc.

EKO

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 Photosynthetically Active Radiation Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photosynthetically Active Radiation

Sensor, with price, sales quantity, revenue, and global market share of Photosynthetically Active Radiation Sensor from 2020 to 2025.

Chapter 3, the Photosynthetically Active Radiation Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photosynthetically Active Radiation Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Photosynthetically Active Radiation Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Photosynthetically Active Radiation Sensor.

Chapter 14 and 15, to describe Photosynthetically Active Radiation Sensor sales channel, distributors, customers, research findings and conclusion.

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