

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

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

Chapter 2, to profile the top manufacturers of Photosynthetically Active Sensor, with price, sales quantity, revenue, and global market share of Photosynthetically Active Sensor from 2020 to 2025.

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

Chapter 4, the Photosynthetically Active 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 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 Sensor.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Photosynthetically Active Sensor Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Response Speed?1 Second

1.3.3 Response Speed?1 Second

1.4 Market Analysis by Application

1.4.1 Overview: Global Photosynthetically Active Sensor Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Agriculture

1.4.3 Environmental Monitoring

1.4.4 Others

1.5 Global Photosynthetically Active Sensor Market Size & Forecast

1.5.1 Global Photosynthetically Active Sensor Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Photosynthetically Active Sensor Sales Quantity (2020-2031)

1.5.3 Global Photosynthetically Active Sensor Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Vernier

2.1.1 Vernier Details

2.1.2 Vernier Major Business

2.1.3 Vernier Photosynthetically Active Sensor Product and Services

2.1.4 Vernier Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Vernier Recent Developments/Updates

2.2 Apogee Instruments, Inc.

2.2.1 Apogee Instruments, Inc. Details

2.2.2 Apogee Instruments, Inc. Major Business

2.2.3 Apogee Instruments, Inc. Photosynthetically Active Sensor Product and Services

2.2.4 Apogee Instruments, Inc. Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Apogee Instruments, Inc. Recent Developments/Updates

2.3 Darrera

2.3.1 Darrera Details

2.3.2 Darrera Major Business

2.3.3 Darrera Photosynthetically Active Sensor Product and Services

2.3.4 Darrera Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Darrera Recent Developments/Updates

2.4 RIKA Sensor

2.4.1 RIKA Sensor Details

2.4.2 RIKA Sensor Major Business

2.4.3 RIKA Sensor Photosynthetically Active Sensor Product and Services

2.4.4 RIKA Sensor Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 RIKA Sensor Recent Developments/Updates

2.5 Shandong Renke Control Technology Co

2.5.1 Shandong Renke Control Technology Co Details

2.5.2 Shandong Renke Control Technology Co Major Business

2.5.3 Shandong Renke Control Technology Co Photosynthetically Active Sensor Product and Services

2.5.4 Shandong Renke Control Technology Co Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Shandong Renke Control Technology Co Recent Developments/Updates

2.6 Aranet

2.6.1 Aranet Details

2.6.2 Aranet Major Business

2.6.3 Aranet Photosynthetically Active Sensor Product and Services

2.6.4 Aranet Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Aranet Recent Developments/Updates

2.7 HOBO

2.7.1 HOBO Details

2.7.2 HOBO Major Business

2.7.3 HOBO Photosynthetically Active Sensor Product and Services

2.7.4 HOBO Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 HOBO Recent Developments/Updates

2.8 Decentlab GmbH

2.8.1 Decentlab GmbH Details

2.8.2 Decentlab GmbH Major Business

- 2.8.3 Decentlab GmbH Photosynthetically Active Sensor Product and Services
- 2.8.4 Decentlab GmbH Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Decentlab GmbH Recent Developments/Updates
- 2.9 YSI
 - 2.9.1 YSI Details
 - 2.9.2 YSI Major Business
 - 2.9.3 YSI Photosynthetically Active Sensor Product and Services
 - 2.9.4 YSI Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 YSI Recent Developments/Updates
- 2.10 Sper Scientific
 - 2.10.1 Sper Scientific Details
 - 2.10.2 Sper Scientific Major Business
 - 2.10.3 Sper Scientific Photosynthetically Active Sensor Product and Services
 - 2.10.4 Sper Scientific Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 Sper Scientific Recent Developments/Updates
- 2.11 SenTec
 - 2.11.1 SenTec Details
 - 2.11.2 SenTec Major Business
 - 2.11.3 SenTec Photosynthetically Active Sensor Product and Services
 - 2.11.4 SenTec Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 SenTec Recent Developments/Updates
- 2.12 Changsha Zoko
 - 2.12.1 Changsha Zoko Details
 - 2.12.2 Changsha Zoko Major Business
 - 2.12.3 Changsha Zoko Photosynthetically Active Sensor Product and Services
 - 2.12.4 Changsha Zoko Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Changsha Zoko Recent Developments/Updates
- 2.13 Sea-Bird Scientific
 - 2.13.1 Sea-Bird Scientific Details
 - 2.13.2 Sea-Bird Scientific Major Business
 - 2.13.3 Sea-Bird Scientific Photosynthetically Active Sensor Product and Services
 - 2.13.4 Sea-Bird Scientific Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.13.5 Sea-Bird Scientific Recent Developments/Updates

2.14 Dataflow Systems Limited

2.14.1 Dataflow Systems Limited Details

2.14.2 Dataflow Systems Limited Major Business

2.14.3 Dataflow Systems Limited Photosynthetically Active Sensor Product and Services

2.14.4 Dataflow Systems Limited Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 Dataflow Systems Limited Recent Developments/Updates

2.15 Munro Instruments Limited

2.15.1 Munro Instruments Limited Details

2.15.2 Munro Instruments Limited Major Business

2.15.3 Munro Instruments Limited Photosynthetically Active Sensor Product and Services

2.15.4 Munro Instruments Limited Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.15.5 Munro Instruments Limited Recent Developments/Updates

2.16 METER

2.16.1 METER Details

2.16.2 METER Major Business

2.16.3 METER Photosynthetically Active Sensor Product and Services

2.16.4 METER Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.16.5 METER Recent Developments/Updates

2.17 Geo-matching

2.17.1 Geo-matching Details

2.17.2 Geo-matching Major Business

2.17.3 Geo-matching Photosynthetically Active Sensor Product and Services

2.17.4 Geo-matching Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.17.5 Geo-matching Recent Developments/Updates

2.18 Beijing Ecotek Technology Company Limited

2.18.1 Beijing Ecotek Technology Company Limited Details

2.18.2 Beijing Ecotek Technology Company Limited Major Business

2.18.3 Beijing Ecotek Technology Company Limited Photosynthetically Active Sensor Product and Services

2.18.4 Beijing Ecotek Technology Company Limited Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.18.5 Beijing Ecotek Technology Company Limited Recent Developments/Updates

2.19 LI-COR, Inc.

- 2.19.1 LI-COR, Inc. Details
- 2.19.2 LI-COR, Inc. Major Business
- 2.19.3 LI-COR, Inc. Photosynthetically Active Sensor Product and Services
- 2.19.4 LI-COR, Inc. Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.19.5 LI-COR, Inc. Recent Developments/Updates
- 2.20 EKO
 - 2.20.1 EKO Details
 - 2.20.2 EKO Major Business
 - 2.20.3 EKO Photosynthetically Active Sensor Product and Services
 - 2.20.4 EKO Photosynthetically Active Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.20.5 EKO Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PHOTOSYNTHETICALLY ACTIVE SENSOR BY MANUFACTURER

- 3.1 Global Photosynthetically Active Sensor Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Photosynthetically Active Sensor Revenue by Manufacturer (2020-2025)
- 3.3 Global Photosynthetically Active Sensor Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of Photosynthetically Active Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 Photosynthetically Active Sensor Manufacturer Market Share in 2024
 - 3.4.3 Top 6 Photosynthetically Active Sensor Manufacturer Market Share in 2024
- 3.5 Photosynthetically Active Sensor Market: Overall Company Footprint Analysis
 - 3.5.1 Photosynthetically Active Sensor Market: Region Footprint
 - 3.5.2 Photosynthetically Active Sensor Market: Company Product Type Footprint
 - 3.5.3 Photosynthetically Active Sensor Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Photosynthetically Active Sensor Market Size by Region
 - 4.1.1 Global Photosynthetically Active Sensor Sales Quantity by Region (2020-2031)
 - 4.1.2 Global Photosynthetically Active Sensor Consumption Value by Region

(2020-2031)

- 4.1.3 Global Photosynthetically Active Sensor Average Price by Region (2020-2031)
- 4.2 North America Photosynthetically Active Sensor Consumption Value (2020-2031)
- 4.3 Europe Photosynthetically Active Sensor Consumption Value (2020-2031)
- 4.4 Asia-Pacific Photosynthetically Active Sensor Consumption Value (2020-2031)
- 4.5 South America Photosynthetically Active Sensor Consumption Value (2020-2031)
- 4.6 Middle East & Africa Photosynthetically Active Sensor Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Photosynthetically Active Sensor Sales Quantity by Type (2020-2031)
- 5.2 Global Photosynthetically Active Sensor Consumption Value by Type (2020-2031)
- 5.3 Global Photosynthetically Active Sensor Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Photosynthetically Active Sensor Sales Quantity by Application (2020-2031)
- 6.2 Global Photosynthetically Active Sensor Consumption Value by Application (2020-2031)
- 6.3 Global Photosynthetically Active Sensor Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America Photosynthetically Active Sensor Sales Quantity by Type (2020-2031)
- 7.2 North America Photosynthetically Active Sensor Sales Quantity by Application (2020-2031)
- 7.3 North America Photosynthetically Active Sensor Market Size by Country
 - 7.3.1 North America Photosynthetically Active Sensor Sales Quantity by Country (2020-2031)
 - 7.3.2 North America Photosynthetically Active Sensor Consumption Value by Country (2020-2031)
 - 7.3.3 United States Market Size and Forecast (2020-2031)
 - 7.3.4 Canada Market Size and Forecast (2020-2031)
 - 7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe Photosynthetically Active Sensor Sales Quantity by Type (2020-2031)
- 8.2 Europe Photosynthetically Active Sensor Sales Quantity by Application (2020-2031)
- 8.3 Europe Photosynthetically Active Sensor Market Size by Country
 - 8.3.1 Europe Photosynthetically Active Sensor Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe Photosynthetically Active Sensor Consumption Value by Country (2020-2031)
 - 8.3.3 Germany Market Size and Forecast (2020-2031)
 - 8.3.4 France Market Size and Forecast (2020-2031)
 - 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
 - 8.3.6 Russia Market Size and Forecast (2020-2031)
 - 8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Photosynthetically Active Sensor Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Photosynthetically Active Sensor Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Photosynthetically Active Sensor Market Size by Region
 - 9.3.1 Asia-Pacific Photosynthetically Active Sensor Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific Photosynthetically Active Sensor Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)
 - 9.3.6 India Market Size and Forecast (2020-2031)
 - 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
 - 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America Photosynthetically Active Sensor Sales Quantity by Type (2020-2031)
- 10.2 South America Photosynthetically Active Sensor Sales Quantity by Application (2020-2031)
- 10.3 South America Photosynthetically Active Sensor Market Size by Country
 - 10.3.1 South America Photosynthetically Active Sensor Sales Quantity by Country (2020-2031)
 - 10.3.2 South America Photosynthetically Active Sensor Consumption Value by

Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Photosynthetically Active Sensor Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Photosynthetically Active Sensor Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Photosynthetically Active Sensor Market Size by Country

11.3.1 Middle East & Africa Photosynthetically Active Sensor Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Photosynthetically Active Sensor Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Photosynthetically Active Sensor Market Drivers

12.2 Photosynthetically Active Sensor Market Restraints

12.3 Photosynthetically Active Sensor Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Photosynthetically Active Sensor and Key Manufacturers

13.2 Manufacturing Costs Percentage of Photosynthetically Active Sensor

13.3 Photosynthetically Active Sensor Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Photosynthetically Active Sensor Typical Distributors

14.3 Photosynthetically Active Sensor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Photosynthetically Active Sensor Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Photosynthetically Active Sensor Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Vernier Basic Information, Manufacturing Base and Competitors

Table 4. Vernier Major Business

Table 5. Vernier Photosynthetically Active Sensor Product and Services

Table 6. Vernier Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Vernier Recent Developments/Updates

Table 8. Apogee Instruments, Inc. Basic Information, Manufacturing Base and Competitors

Table 9. Apogee Instruments, Inc. Major Business

Table 10. Apogee Instruments, Inc. Photosynthetically Active Sensor Product and Services

Table 11. Apogee Instruments, Inc. Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Apogee Instruments, Inc. Recent Developments/Updates

Table 13. Darrera Basic Information, Manufacturing Base and Competitors

Table 14. Darrera Major Business

Table 15. Darrera Photosynthetically Active Sensor Product and Services

Table 16. Darrera Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Darrera Recent Developments/Updates

Table 18. RIKA Sensor Basic Information, Manufacturing Base and Competitors

Table 19. RIKA Sensor Major Business

Table 20. RIKA Sensor Photosynthetically Active Sensor Product and Services

Table 21. RIKA Sensor Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. RIKA Sensor Recent Developments/Updates

Table 23. Shandong Renke Control Technology Co Basic Information, Manufacturing Base and Competitors

Table 24. Shandong Renke Control Technology Co Major Business

Table 25. Shandong Renke Control Technology Co Photosynthetically Active Sensor Product and Services

Table 26. Shandong Renke Control Technology Co Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Shandong Renke Control Technology Co Recent Developments/Updates

Table 28. Aranet Basic Information, Manufacturing Base and Competitors

Table 29. Aranet Major Business

Table 30. Aranet Photosynthetically Active Sensor Product and Services

Table 31. Aranet Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Aranet Recent Developments/Updates

Table 33. HOBO Basic Information, Manufacturing Base and Competitors

Table 34. HOBO Major Business

Table 35. HOBO Photosynthetically Active Sensor Product and Services

Table 36. HOBO Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. HOBO Recent Developments/Updates

Table 38. Decentlab GmbH Basic Information, Manufacturing Base and Competitors

Table 39. Decentlab GmbH Major Business

Table 40. Decentlab GmbH Photosynthetically Active Sensor Product and Services

Table 41. Decentlab GmbH Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Decentlab GmbH Recent Developments/Updates

Table 43. YSI Basic Information, Manufacturing Base and Competitors

Table 44. YSI Major Business

Table 45. YSI Photosynthetically Active Sensor Product and Services

Table 46. YSI Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. YSI Recent Developments/Updates

Table 48. Sper Scientific Basic Information, Manufacturing Base and Competitors

Table 49. Sper Scientific Major Business

Table 50. Sper Scientific Photosynthetically Active Sensor Product and Services

Table 51. Sper Scientific Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Sper Scientific Recent Developments/Updates

Table 53. SenTec Basic Information, Manufacturing Base and Competitors

Table 54. SenTec Major Business

Table 55. SenTec Photosynthetically Active Sensor Product and Services

Table 56. SenTec Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. SenTec Recent Developments/Updates

Table 58. Changsha Zoko Basic Information, Manufacturing Base and Competitors

Table 59. Changsha Zoko Major Business

Table 60. Changsha Zoko Photosynthetically Active Sensor Product and Services

Table 61. Changsha Zoko Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Changsha Zoko Recent Developments/Updates

Table 63. Sea-Bird Scientific Basic Information, Manufacturing Base and Competitors

Table 64. Sea-Bird Scientific Major Business

Table 65. Sea-Bird Scientific Photosynthetically Active Sensor Product and Services

Table 66. Sea-Bird Scientific Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Sea-Bird Scientific Recent Developments/Updates

Table 68. Dataflow Systems Limited Basic Information, Manufacturing Base and Competitors

Table 69. Dataflow Systems Limited Major Business

Table 70. Dataflow Systems Limited Photosynthetically Active Sensor Product and Services

Table 71. Dataflow Systems Limited Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Dataflow Systems Limited Recent Developments/Updates

Table 73. Munro Instruments Limited Basic Information, Manufacturing Base and Competitors

Table 74. Munro Instruments Limited Major Business

Table 75. Munro Instruments Limited Photosynthetically Active Sensor Product and Services

Table 76. Munro Instruments Limited Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Munro Instruments Limited Recent Developments/Updates

Table 78. METER Basic Information, Manufacturing Base and Competitors

Table 79. METER Major Business

Table 80. METER Photosynthetically Active Sensor Product and Services
Table 81. METER Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 82. METER Recent Developments/Updates
Table 83. Geo-matching Basic Information, Manufacturing Base and Competitors
Table 84. Geo-matching Major Business
Table 85. Geo-matching Photosynthetically Active Sensor Product and Services
Table 86. Geo-matching Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 87. Geo-matching Recent Developments/Updates
Table 88. Beijing Ecotek Technology Company Limited Basic Information, Manufacturing Base and Competitors
Table 89. Beijing Ecotek Technology Company Limited Major Business
Table 90. Beijing Ecotek Technology Company Limited Photosynthetically Active Sensor Product and Services
Table 91. Beijing Ecotek Technology Company Limited Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 92. Beijing Ecotek Technology Company Limited Recent Developments/Updates
Table 93. LI-COR, Inc. Basic Information, Manufacturing Base and Competitors
Table 94. LI-COR, Inc. Major Business
Table 95. LI-COR, Inc. Photosynthetically Active Sensor Product and Services
Table 96. LI-COR, Inc. Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 97. LI-COR, Inc. Recent Developments/Updates
Table 98. EKO Basic Information, Manufacturing Base and Competitors
Table 99. EKO Major Business
Table 100. EKO Photosynthetically Active Sensor Product and Services
Table 101. EKO Photosynthetically Active Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 102. EKO Recent Developments/Updates
Table 103. Global Photosynthetically Active Sensor Sales Quantity by Manufacturer (2020-2025) & (K Units)
Table 104. Global Photosynthetically Active Sensor Revenue by Manufacturer (2020-2025) & (USD Million)
Table 105. Global Photosynthetically Active Sensor Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 106. Market Position of Manufacturers in Photosynthetically Active Sensor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 107. Head Office and Photosynthetically Active Sensor Production Site of Key Manufacturer

Table 108. Photosynthetically Active Sensor Market: Company Product Type Footprint

Table 109. Photosynthetically Active Sensor Market: Company Product Application Footprint

Table 110. Photosynthetically Active Sensor New Market Entrants and Barriers to Market Entry

Table 111. Photosynthetically Active Sensor Mergers, Acquisition, Agreements, and Collaborations

Table 112. Global Photosynthetically Active Sensor Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 113. Global Photosynthetically Active Sensor Sales Quantity by Region (2020-2025) & (K Units)

Table 114. Global Photosynthetically Active Sensor Sales Quantity by Region (2026-2031) & (K Units)

Table 115. Global Photosynthetically Active Sensor Consumption Value by Region (2020-2025) & (USD Million)

Table 116. Global Photosynthetically Active Sensor Consumption Value by Region (2026-2031) & (USD Million)

Table 117. Global Photosynthetically Active Sensor Average Price by Region (2020-2025) & (US\$/Unit)

Table 118. Global Photosynthetically Active Sensor Average Price by Region (2026-2031) & (US\$/Unit)

Table 119. Global Photosynthetically Active Sensor Sales Quantity by Type (2020-2025) & (K Units)

Table 120. Global Photosynthetically Active Sensor Sales Quantity by Type (2026-2031) & (K Units)

Table 121. Global Photosynthetically Active Sensor Consumption Value by Type (2020-2025) & (USD Million)

Table 122. Global Photosynthetically Active Sensor Consumption Value by Type (2026-2031) & (USD Million)

Table 123. Global Photosynthetically Active Sensor Average Price by Type (2020-2025) & (US\$/Unit)

Table 124. Global Photosynthetically Active Sensor Average Price by Type (2026-2031) & (US\$/Unit)

Table 125. Global Photosynthetically Active Sensor Sales Quantity by Application (2020-2025) & (K Units)

Table 126. Global Photosynthetically Active Sensor Sales Quantity by Application (2026-2031) & (K Units)

Table 127. Global Photosynthetically Active Sensor Consumption Value by Application (2020-2025) & (USD Million)

Table 128. Global Photosynthetically Active Sensor Consumption Value by Application (2026-2031) & (USD Million)

Table 129. Global Photosynthetically Active Sensor Average Price by Application (2020-2025) & (US\$/Unit)

Table 130. Global Photosynthetically Active Sensor Average Price by Application (2026-2031) & (US\$/Unit)

Table 131. North America Photosynthetically Active Sensor Sales Quantity by Type (2020-2025) & (K Units)

Table 132. North America Photosynthetically Active Sensor Sales Quantity by Type (2026-2031) & (K Units)

Table 133. North America Photosynthetically Active Sensor Sales Quantity by Application (2020-2025) & (K Units)

Table 134. North America Photosynthetically Active Sensor Sales Quantity by Application (2026-2031) & (K Units)

Table 135. North America Photosynthetically Active Sensor Sales Quantity by Country (2020-2025) & (K Units)

Table 136. North America Photosynthetically Active Sensor Sales Quantity by Country (2026-2031) & (K Units)

Table 137. North America Photosynthetically Active Sensor Consumption Value by Country (2020-2025) & (USD Million)

Table 138. North America Photosynthetically Active Sensor Consumption Value by Country (2026-2031) & (USD Million)

Table 139. Europe Photosynthetically Active Sensor Sales Quantity by Type (2020-2025) & (K Units)

Table 140. Europe Photosynthetically Active Sensor Sales Quantity by Type (2026-2031) & (K Units)

Table 141. Europe Photosynthetically Active Sensor Sales Quantity by Application (2020-2025) & (K Units)

Table 142. Europe Photosynthetically Active Sensor Sales Quantity by Application (2026-2031) & (K Units)

Table 143. Europe Photosynthetically Active Sensor Sales Quantity by Country (2020-2025) & (K Units)

Table 144. Europe Photosynthetically Active Sensor Sales Quantity by Country (2026-2031) & (K Units)

Table 145. Europe Photosynthetically Active Sensor Consumption Value by Country

(2020-2025) & (USD Million)

Table 146. Europe Photosynthetically Active Sensor Consumption Value by Country
(2026-2031) & (USD Million)

Table 147. Asia-Pacific Photosynthetically Active Sensor Sales Quantity by Type
(2020-2025) & (K Units)

Table 148. Asia-Pacific Photosynthetically Active Sensor Sales Quantity by Type
(2026-2031) & (K Units)

Table 149. Asia-Pacific Photosynthetically Active Sensor Sales Quantity by Application
(2020-2025) & (K Units)

Table 150. Asia-Pacific Photosynthetically Active Sensor Sales Quantity by Application
(2026-2031) & (K Units)

Table 151. Asia-Pacific Photosynthetically Active Sensor Sales Quantity by Region
(2020-2025) & (K Units)

Table 152. Asia-Pacific Photosynthetically Active Sensor Sales Quantity by Region
(2026-2031) & (K Units)

Table 153. Asia-Pacific Photosynthetically Active Sensor Consumption Value by Region
(2020-2025) & (USD Million)

Table 154. Asia-Pacific Photosynthetically Active Sensor Consumption Value by Region
(2026-2031) & (USD Million)

Table 155. South America Photosynthetically Active Sensor Sales Quantity by Type
(2020-2025) & (K Units)

Table 156. South America Photosynthetically Active Sensor Sales Quantity by Type
(2026-2031) & (K Units)

Table 157. South America Photosynthetically Active Sensor Sales Quantity by
Application (2020-2025) & (K Units)

Table 158. South America Photosynthetically Active Sensor Sales Quantity by
Application (2026-2031) & (K Units)

Table 159. South America Photosynthetically Active Sensor Sales Quantity by Country
(2020-2025) & (K Units)

Table 160. South America Photosynthetically Active Sensor Sales Quantity by Country
(2026-2031) & (K Units)

Table 161. South America Photosynthetically Active Sensor Consumption Value by
Country (2020-2025) & (USD Million)

Table 162. South America Photosynthetically Active Sensor Consumption Value by
Country (2026-2031) & (USD Million)

Table 163. Middle East & Africa Photosynthetically Active Sensor Sales Quantity by
Type (2020-2025) & (K Units)

Table 164. Middle East & Africa Photosynthetically Active Sensor Sales Quantity by
Type (2026-2031) & (K Units)

Table 165. Middle East & Africa Photosynthetically Active Sensor Sales Quantity by Application (2020-2025) & (K Units)

Table 166. Middle East & Africa Photosynthetically Active Sensor Sales Quantity by Application (2026-2031) & (K Units)

Table 167. Middle East & Africa Photosynthetically Active Sensor Sales Quantity by Country (2020-2025) & (K Units)

Table 168. Middle East & Africa Photosynthetically Active Sensor Sales Quantity by Country (2026-2031) & (K Units)

Table 169. Middle East & Africa Photosynthetically Active Sensor Consumption Value by Country (2020-2025) & (USD Million)

Table 170. Middle East & Africa Photosynthetically Active Sensor Consumption Value by Country (2026-2031) & (USD Million)

Table 171. Photosynthetically Active Sensor Raw Material

Table 172. Key Manufacturers of Photosynthetically Active Sensor Raw Materials

Table 173. Photosynthetically Active Sensor Typical Distributors

Table 174. Photosynthetically Active Sensor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Photosynthetically Active Sensor Picture

Figure 2. Global Photosynthetically Active Sensor Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Photosynthetically Active Sensor Revenue Market Share by Type in 2024

Figure 4. Response Speed?1 Second Examples

Figure 5. Response Speed?1 Second Examples

Figure 6. Global Photosynthetically Active Sensor Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Photosynthetically Active Sensor Revenue Market Share by Application in 2024

Figure 8. Agriculture Examples

Figure 9. Environmental Monitoring Examples

Figure 10. Others Examples

Figure 11. Global Photosynthetically Active Sensor Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 12. Global Photosynthetically Active Sensor Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 13. Global Photosynthetically Active Sensor Sales Quantity (2020-2031) & (K Units)

Figure 14. Global Photosynthetically Active Sensor Price (2020-2031) & (US\$/Unit)

Figure 15. Global Photosynthetically Active Sensor Sales Quantity Market Share by Manufacturer in 2024

Figure 16. Global Photosynthetically Active Sensor Revenue Market Share by Manufacturer in 2024

Figure 17. Producer Shipments of Photosynthetically Active Sensor by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 18. Top 3 Photosynthetically Active Sensor Manufacturer (Revenue) Market Share in 2024

Figure 19. Top 6 Photosynthetically Active Sensor Manufacturer (Revenue) Market Share in 2024

Figure 20. Global Photosynthetically Active Sensor Sales Quantity Market Share by Region (2020-2031)

Figure 21. Global Photosynthetically Active Sensor Consumption Value Market Share by Region (2020-2031)

Figure 22. North America Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 23. Europe Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 24. Asia-Pacific Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 25. South America Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 26. Middle East & Africa Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 27. Global Photosynthetically Active Sensor Sales Quantity Market Share by Type (2020-2031)

Figure 28. Global Photosynthetically Active Sensor Consumption Value Market Share by Type (2020-2031)

Figure 29. Global Photosynthetically Active Sensor Average Price by Type (2020-2031) & (US\$/Unit)

Figure 30. Global Photosynthetically Active Sensor Sales Quantity Market Share by Application (2020-2031)

Figure 31. Global Photosynthetically Active Sensor Revenue Market Share by Application (2020-2031)

Figure 32. Global Photosynthetically Active Sensor Average Price by Application (2020-2031) & (US\$/Unit)

Figure 33. North America Photosynthetically Active Sensor Sales Quantity Market Share by Type (2020-2031)

Figure 34. North America Photosynthetically Active Sensor Sales Quantity Market Share by Application (2020-2031)

Figure 35. North America Photosynthetically Active Sensor Sales Quantity Market Share by Country (2020-2031)

Figure 36. North America Photosynthetically Active Sensor Consumption Value Market Share by Country (2020-2031)

Figure 37. United States Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 38. Canada Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 39. Mexico Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 40. Europe Photosynthetically Active Sensor Sales Quantity Market Share by Type (2020-2031)

Figure 41. Europe Photosynthetically Active Sensor Sales Quantity Market Share by

Application (2020-2031)

Figure 42. Europe Photosynthetically Active Sensor Sales Quantity Market Share by Country (2020-2031)

Figure 43. Europe Photosynthetically Active Sensor Consumption Value Market Share by Country (2020-2031)

Figure 44. Germany Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 45. France Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 46. United Kingdom Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 47. Russia Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 48. Italy Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 49. Asia-Pacific Photosynthetically Active Sensor Sales Quantity Market Share by Type (2020-2031)

Figure 50. Asia-Pacific Photosynthetically Active Sensor Sales Quantity Market Share by Application (2020-2031)

Figure 51. Asia-Pacific Photosynthetically Active Sensor Sales Quantity Market Share by Region (2020-2031)

Figure 52. Asia-Pacific Photosynthetically Active Sensor Consumption Value Market Share by Region (2020-2031)

Figure 53. China Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 56. India Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 59. South America Photosynthetically Active Sensor Sales Quantity Market Share by Type (2020-2031)

Figure 60. South America Photosynthetically Active Sensor Sales Quantity Market Share by Application (2020-2031)

Figure 61. South America Photosynthetically Active Sensor Sales Quantity Market Share by Country (2020-2031)

Figure 62. South America Photosynthetically Active Sensor Consumption Value Market Share by Country (2020-2031)

Figure 63. Brazil Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 64. Argentina Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 65. Middle East & Africa Photosynthetically Active Sensor Sales Quantity Market Share by Type (2020-2031)

Figure 66. Middle East & Africa Photosynthetically Active Sensor Sales Quantity Market Share by Application (2020-2031)

Figure 67. Middle East & Africa Photosynthetically Active Sensor Sales Quantity Market Share by Country (2020-2031)

Figure 68. Middle East & Africa Photosynthetically Active Sensor Consumption Value Market Share by Country (2020-2031)

Figure 69. Turkey Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 70. Egypt Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 71. Saudi Arabia Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 72. South Africa Photosynthetically Active Sensor Consumption Value (2020-2031) & (USD Million)

Figure 73. Photosynthetically Active Sensor Market Drivers

Figure 74. Photosynthetically Active Sensor Market Restraints

Figure 75. Photosynthetically Active Sensor Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of Photosynthetically Active Sensor in 2024

Figure 78. Manufacturing Process Analysis of Photosynthetically Active Sensor

Figure 79. Photosynthetically Active Sensor Industrial Chain

Figure 80. Sales Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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