

Global Shortwave Radiation Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Shortwave Radiation Sensor market size was valued at US\$ 171 million in 2025 and is forecast to a readjusted size of US\$ 258 million by 2032 with a CAGR of 5.5% during review period.

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.

This report is a detailed and comprehensive analysis for global Shortwave Radiation Sensor market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Detection Principle 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 Shortwave Radiation Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Shortwave Radiation Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Shortwave Radiation Sensor market size and forecasts, by Detection Principle and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Shortwave Radiation Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Shortwave 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 Shortwave 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 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., LICOR Environmental, etc.

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

Market Segmentation

Shortwave Radiation Sensor market is split by Detection Principle and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Detection Principle, 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 Detection Principle

Thermopile

Silicon Photovoltaic

Other

Market segment by Precision Grade

Class A

Class B

Class C

Other

Market segment by Output Interface

Passive Millivolt Output

Analog Voltage Output

Analog Current Output

RS485 Modbus Output

SDI-12 Output

Wireless IoT Output

Other

Market segment by Application

Photovoltaic Plant Performance Monitoring

Meteorological and Climate Observation

Agricultural Ecological and Hydrological Monitoring

Building Energy Management

Material Aging and Environmental Testing

Other

Major players covered

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.

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

Chapter 2, to profile the top manufacturers of Shortwave Radiation Sensor, with price, sales quantity, revenue, and global market share of Shortwave Radiation Sensor from 2021 to 2026.

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

Chapter 4, the Shortwave Radiation Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Detection Principle and by Application, with sales market share and growth rate by Detection Principle, by Application, from 2021 to 2032.

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 2021 to 2026. and Shortwave Radiation Sensor market forecast, by regions, by Detection Principle, and by Application, with sales and revenue, from 2027 to 2032.

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 Shortwave Radiation Sensor.

Chapter 14 and 15, to describe Shortwave Radiation 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 Detection Principle

1.3.1 Overview: Global Shortwave Radiation Sensor Consumption Value by Detection Principle: 2021 Versus 2025 Versus 2032

1.3.2 Thermopile

1.3.3 Silicon Photovoltaic

1.3.4 Other

1.4 Market Analysis by Precision Grade

1.4.1 Overview: Global Shortwave Radiation Sensor Consumption Value by Precision Grade: 2021 Versus 2025 Versus 2032

1.4.2 Class A

1.4.3 Class B

1.4.4 Class C

1.4.5 Other

1.5 Market Analysis by Output Interface

1.5.1 Overview: Global Shortwave Radiation Sensor Consumption Value by Output Interface: 2021 Versus 2025 Versus 2032

1.5.2 Passive Millivolt Output

1.5.3 Analog Voltage Output

1.5.4 Analog Current Output

1.5.5 RS485 Modbus Output

1.5.6 SDI-12 Output

1.5.7 Wireless IoT Output

1.5.8 Other

1.6 Market Analysis by Application

1.6.1 Overview: Global Shortwave Radiation Sensor Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Photovoltaic Plant Performance Monitoring

1.6.3 Meteorological and Climate Observation

1.6.4 Agricultural Ecological and Hydrological Monitoring

1.6.5 Building Energy Management

1.6.6 Material Aging and Environmental Testing

1.6.7 Other

1.7 Global Shortwave Radiation Sensor Market Size & Forecast

- 1.7.1 Global Shortwave Radiation Sensor Consumption Value (2021 & 2025 & 2032)
- 1.7.2 Global Shortwave Radiation Sensor Sales Quantity (2021-2032)
- 1.7.3 Global Shortwave Radiation Sensor Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 OTT HydroMet B.V.

- 2.1.1 OTT HydroMet B.V. Details
- 2.1.2 OTT HydroMet B.V. Major Business
- 2.1.3 OTT HydroMet B.V. Shortwave Radiation Sensor Product and Services
- 2.1.4 OTT HydroMet B.V. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 OTT HydroMet B.V. Recent Developments/Updates

2.2 Hukx B.V.

- 2.2.1 Hukx B.V. Details
- 2.2.2 Hukx B.V. Major Business
- 2.2.3 Hukx B.V. Shortwave Radiation Sensor Product and Services
- 2.2.4 Hukx B.V. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Hukx B.V. Recent Developments/Updates

2.3 EKO Instruments Co., Ltd.

- 2.3.1 EKO Instruments Co., Ltd. Details
- 2.3.2 EKO Instruments Co., Ltd. Major Business
- 2.3.3 EKO Instruments Co., Ltd. Shortwave Radiation Sensor Product and Services
- 2.3.4 EKO Instruments Co., Ltd. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 EKO Instruments Co., Ltd. Recent Developments/Updates

2.4 Apogee Instruments, Inc.

- 2.4.1 Apogee Instruments, Inc. Details
- 2.4.2 Apogee Instruments, Inc. Major Business
- 2.4.3 Apogee Instruments, Inc. Shortwave Radiation Sensor Product and Services
- 2.4.4 Apogee Instruments, Inc. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.4.5 Apogee Instruments, Inc. Recent Developments/Updates

2.5 Campbell Scientific, Inc.

- 2.5.1 Campbell Scientific, Inc. Details
- 2.5.2 Campbell Scientific, Inc. Major Business
- 2.5.3 Campbell Scientific, Inc. Shortwave Radiation Sensor Product and Services
- 2.5.4 Campbell Scientific, Inc. Shortwave Radiation Sensor Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Campbell Scientific, Inc. Recent Developments/Updates

2.6 Delta-T Devices Ltd.

2.6.1 Delta-T Devices Ltd. Details

2.6.2 Delta-T Devices Ltd. Major Business

2.6.3 Delta-T Devices Ltd. Shortwave Radiation Sensor Product and Services

2.6.4 Delta-T Devices Ltd. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Delta-T Devices Ltd. Recent Developments/Updates

2.7 Onset Computer Corporation

2.7.1 Onset Computer Corporation Details

2.7.2 Onset Computer Corporation Major Business

2.7.3 Onset Computer Corporation Shortwave Radiation Sensor Product and Services

2.7.4 Onset Computer Corporation Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Onset Computer Corporation Recent Developments/Updates

2.8 METER Group, Inc.

2.8.1 METER Group, Inc. Details

2.8.2 METER Group, Inc. Major Business

2.8.3 METER Group, Inc. Shortwave Radiation Sensor Product and Services

2.8.4 METER Group, Inc. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 METER Group, Inc. Recent Developments/Updates

2.9 NRG Systems, Inc.

2.9.1 NRG Systems, Inc. Details

2.9.2 NRG Systems, Inc. Major Business

2.9.3 NRG Systems, Inc. Shortwave Radiation Sensor Product and Services

2.9.4 NRG Systems, Inc. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 NRG Systems, Inc. Recent Developments/Updates

2.10 LI-COR Environmental

2.10.1 LI-COR Environmental Details

2.10.2 LI-COR Environmental Major Business

2.10.3 LI-COR Environmental Shortwave Radiation Sensor Product and Services

2.10.4 LI-COR Environmental Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 LI-COR Environmental Recent Developments/Updates

2.11 LAMBRECHT meteo GmbH

2.11.1 LAMBRECHT meteo GmbH Details

- 2.11.2 LAMBRECHT meteo GmbH Major Business
- 2.11.3 LAMBRECHT meteo GmbH Shortwave Radiation Sensor Product and Services
- 2.11.4 LAMBRECHT meteo GmbH Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.11.5 LAMBRECHT meteo GmbH Recent Developments/Updates
- 2.12 Adolf Thies GmbH & Co. KG
 - 2.12.1 Adolf Thies GmbH & Co. KG Details
 - 2.12.2 Adolf Thies GmbH & Co. KG Major Business
 - 2.12.3 Adolf Thies GmbH & Co. KG Shortwave Radiation Sensor Product and Services
 - 2.12.4 Adolf Thies GmbH & Co. KG Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Adolf Thies GmbH & Co. KG Recent Developments/Updates
- 2.13 Senseca Italy S.r.l.
 - 2.13.1 Senseca Italy S.r.l. Details
 - 2.13.2 Senseca Italy S.r.l. Major Business
 - 2.13.3 Senseca Italy S.r.l. Shortwave Radiation Sensor Product and Services
 - 2.13.4 Senseca Italy S.r.l. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Senseca Italy S.r.l. Recent Developments/Updates
- 2.14 Solar Light Company, LLC
 - 2.14.1 Solar Light Company, LLC Details
 - 2.14.2 Solar Light Company, LLC Major Business
 - 2.14.3 Solar Light Company, LLC Shortwave Radiation Sensor Product and Services
 - 2.14.4 Solar Light Company, LLC Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Solar Light Company, LLC Recent Developments/Updates
- 2.15 IMT Technology GmbH
 - 2.15.1 IMT Technology GmbH Details
 - 2.15.2 IMT Technology GmbH Major Business
 - 2.15.3 IMT Technology GmbH Shortwave Radiation Sensor Product and Services
 - 2.15.4 IMT Technology GmbH Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 IMT Technology GmbH Recent Developments/Updates
- 2.16 Skye Instruments Ltd.
 - 2.16.1 Skye Instruments Ltd. Details
 - 2.16.2 Skye Instruments Ltd. Major Business
 - 2.16.3 Skye Instruments Ltd. Shortwave Radiation Sensor Product and Services
 - 2.16.4 Skye Instruments Ltd. Shortwave Radiation Sensor Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Skye Instruments Ltd. Recent Developments/Updates

2.17 Hunan Rika Electronic Tech Co., Ltd.

2.17.1 Hunan Rika Electronic Tech Co., Ltd. Details

2.17.2 Hunan Rika Electronic Tech Co., Ltd. Major Business

2.17.3 Hunan Rika Electronic Tech Co., Ltd. Shortwave Radiation Sensor Product and Services

2.17.4 Hunan Rika Electronic Tech Co., Ltd. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 Hunan Rika Electronic Tech Co., Ltd. Recent Developments/Updates

2.18 Shandong Renke Control Technology Co., Ltd.

2.18.1 Shandong Renke Control Technology Co., Ltd. Details

2.18.2 Shandong Renke Control Technology Co., Ltd. Major Business

2.18.3 Shandong Renke Control Technology Co., Ltd. Shortwave Radiation Sensor Product and Services

2.18.4 Shandong Renke Control Technology Co., Ltd. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Shandong Renke Control Technology Co., Ltd. Recent Developments/Updates

2.19 Shandong Tianhe Environment Technology Co., Ltd.

2.19.1 Shandong Tianhe Environment Technology Co., Ltd. Details

2.19.2 Shandong Tianhe Environment Technology Co., Ltd. Major Business

2.19.3 Shandong Tianhe Environment Technology Co., Ltd. Shortwave Radiation Sensor Product and Services

2.19.4 Shandong Tianhe Environment Technology Co., Ltd. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.19.5 Shandong Tianhe Environment Technology Co., Ltd. Recent Developments/Updates

2.20 Sseed Technology Co., Ltd.

2.20.1 Sseed Technology Co., Ltd. Details

2.20.2 Sseed Technology Co., Ltd. Major Business

2.20.3 Sseed Technology Co., Ltd. Shortwave Radiation Sensor Product and Services

2.20.4 Sseed Technology Co., Ltd. Shortwave Radiation Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.20.5 Sseed Technology Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SHORTWAVE RADIATION SENSOR BY MANUFACTURER

- 3.1 Global Shortwave Radiation Sensor Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Shortwave Radiation Sensor Revenue by Manufacturer (2021-2026)
- 3.3 Global Shortwave Radiation Sensor Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Shortwave Radiation Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Shortwave Radiation Sensor Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Shortwave Radiation Sensor Manufacturer Market Share in 2025
- 3.5 Shortwave Radiation Sensor Market: Overall Company Footprint Analysis
 - 3.5.1 Shortwave Radiation Sensor Market: Region Footprint
 - 3.5.2 Shortwave Radiation Sensor Market: Company Product Type Footprint
 - 3.5.3 Shortwave Radiation 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 Shortwave Radiation Sensor Market Size by Region
 - 4.1.1 Global Shortwave Radiation Sensor Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Shortwave Radiation Sensor Consumption Value by Region (2021-2032)
 - 4.1.3 Global Shortwave Radiation Sensor Average Price by Region (2021-2032)
- 4.2 North America Shortwave Radiation Sensor Consumption Value (2021-2032)
- 4.3 Europe Shortwave Radiation Sensor Consumption Value (2021-2032)
- 4.4 Asia-Pacific Shortwave Radiation Sensor Consumption Value (2021-2032)
- 4.5 South America Shortwave Radiation Sensor Consumption Value (2021-2032)
- 4.6 Middle East & Africa Shortwave Radiation Sensor Consumption Value (2021-2032)

5 MARKET SEGMENT BY DETECTION PRINCIPLE

- 5.1 Global Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2032)
- 5.2 Global Shortwave Radiation Sensor Consumption Value by Detection Principle (2021-2032)
- 5.3 Global Shortwave Radiation Sensor Average Price by Detection Principle (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Shortwave Radiation Sensor Sales Quantity by Application (2021-2032)

6.2 Global Shortwave Radiation Sensor Consumption Value by Application (2021-2032)

6.3 Global Shortwave Radiation Sensor Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2032)

7.2 North America Shortwave Radiation Sensor Sales Quantity by Application (2021-2032)

7.3 North America Shortwave Radiation Sensor Market Size by Country

7.3.1 North America Shortwave Radiation Sensor Sales Quantity by Country (2021-2032)

7.3.2 North America Shortwave Radiation Sensor Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2032)

8.2 Europe Shortwave Radiation Sensor Sales Quantity by Application (2021-2032)

8.3 Europe Shortwave Radiation Sensor Market Size by Country

8.3.1 Europe Shortwave Radiation Sensor Sales Quantity by Country (2021-2032)

8.3.2 Europe Shortwave Radiation Sensor Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2032)

9.2 Asia-Pacific Shortwave Radiation Sensor Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Shortwave Radiation Sensor Market Size by Region

- 9.3.1 Asia-Pacific Shortwave Radiation Sensor Sales Quantity by Region (2021-2032)
- 9.3.2 Asia-Pacific Shortwave Radiation Sensor Consumption Value by Region (2021-2032)
- 9.3.3 China Market Size and Forecast (2021-2032)
- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2032)
- 10.2 South America Shortwave Radiation Sensor Sales Quantity by Application (2021-2032)
- 10.3 South America Shortwave Radiation Sensor Market Size by Country
 - 10.3.1 South America Shortwave Radiation Sensor Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Shortwave Radiation Sensor Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2032)
- 11.2 Middle East & Africa Shortwave Radiation Sensor Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Shortwave Radiation Sensor Market Size by Country
 - 11.3.1 Middle East & Africa Shortwave Radiation Sensor Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Shortwave Radiation Sensor Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Shortwave Radiation Sensor Market Drivers
- 12.2 Shortwave Radiation Sensor Market Restraints
- 12.3 Shortwave Radiation 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 Shortwave Radiation Sensor and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Shortwave Radiation Sensor
- 13.3 Shortwave Radiation 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 Shortwave Radiation Sensor Typical Distributors
- 14.3 Shortwave Radiation 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 Shortwave Radiation Sensor Consumption Value by Detection Principle, (USD Million), 2021 & 2025 & 2032

Table 2. Global Shortwave Radiation Sensor Consumption Value by Precision Grade, (USD Million), 2021 & 2025 & 2032

Table 3. Global Shortwave Radiation Sensor Consumption Value by Output Interface, (USD Million), 2021 & 2025 & 2032

Table 4. Global Shortwave Radiation Sensor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. OTT HydroMet B.V. Basic Information, Manufacturing Base and Competitors

Table 6. OTT HydroMet B.V. Major Business

Table 7. OTT HydroMet B.V. Shortwave Radiation Sensor Product and Services

Table 8. OTT HydroMet B.V. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. OTT HydroMet B.V. Recent Developments/Updates

Table 10. Hukx B.V. Basic Information, Manufacturing Base and Competitors

Table 11. Hukx B.V. Major Business

Table 12. Hukx B.V. Shortwave Radiation Sensor Product and Services

Table 13. Hukx B.V. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Hukx B.V. Recent Developments/Updates

Table 15. EKO Instruments Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 16. EKO Instruments Co., Ltd. Major Business

Table 17. EKO Instruments Co., Ltd. Shortwave Radiation Sensor Product and Services

Table 18. EKO Instruments Co., Ltd. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. EKO Instruments Co., Ltd. Recent Developments/Updates

Table 20. Apogee Instruments, Inc. Basic Information, Manufacturing Base and Competitors

Table 21. Apogee Instruments, Inc. Major Business

Table 22. Apogee Instruments, Inc. Shortwave Radiation Sensor Product and Services

Table 23. Apogee Instruments, Inc. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 24. Apogee Instruments, Inc. Recent Developments/Updates

Table 25. Campbell Scientific, Inc. Basic Information, Manufacturing Base and Competitors

Table 26. Campbell Scientific, Inc. Major Business

Table 27. Campbell Scientific, Inc. Shortwave Radiation Sensor Product and Services

Table 28. Campbell Scientific, Inc. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Campbell Scientific, Inc. Recent Developments/Updates

Table 30. Delta-T Devices Ltd. Basic Information, Manufacturing Base and Competitors

Table 31. Delta-T Devices Ltd. Major Business

Table 32. Delta-T Devices Ltd. Shortwave Radiation Sensor Product and Services

Table 33. Delta-T Devices Ltd. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Delta-T Devices Ltd. Recent Developments/Updates

Table 35. Onset Computer Corporation Basic Information, Manufacturing Base and Competitors

Table 36. Onset Computer Corporation Major Business

Table 37. Onset Computer Corporation Shortwave Radiation Sensor Product and Services

Table 38. Onset Computer Corporation Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Onset Computer Corporation Recent Developments/Updates

Table 40. METER Group, Inc. Basic Information, Manufacturing Base and Competitors

Table 41. METER Group, Inc. Major Business

Table 42. METER Group, Inc. Shortwave Radiation Sensor Product and Services

Table 43. METER Group, Inc. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. METER Group, Inc. Recent Developments/Updates

Table 45. NRG Systems, Inc. Basic Information, Manufacturing Base and Competitors

Table 46. NRG Systems, Inc. Major Business

Table 47. NRG Systems, Inc. Shortwave Radiation Sensor Product and Services

Table 48. NRG Systems, Inc. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. NRG Systems, Inc. Recent Developments/Updates

Table 50. LI-COR Environmental Basic Information, Manufacturing Base and Competitors

Table 51. LI-COR Environmental Major Business

Table 52. LI-COR Environmental Shortwave Radiation Sensor Product and Services

Table 53. LI-COR Environmental Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. LI-COR Environmental Recent Developments/Updates

Table 55. LAMBRECHT meteo GmbH Basic Information, Manufacturing Base and Competitors

Table 56. LAMBRECHT meteo GmbH Major Business

Table 57. LAMBRECHT meteo GmbH Shortwave Radiation Sensor Product and Services

Table 58. LAMBRECHT meteo GmbH Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. LAMBRECHT meteo GmbH Recent Developments/Updates

Table 60. Adolf Thies GmbH & Co. KG Basic Information, Manufacturing Base and Competitors

Table 61. Adolf Thies GmbH & Co. KG Major Business

Table 62. Adolf Thies GmbH & Co. KG Shortwave Radiation Sensor Product and Services

Table 63. Adolf Thies GmbH & Co. KG Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Adolf Thies GmbH & Co. KG Recent Developments/Updates

Table 65. Senseca Italy S.r.l. Basic Information, Manufacturing Base and Competitors

Table 66. Senseca Italy S.r.l. Major Business

Table 67. Senseca Italy S.r.l. Shortwave Radiation Sensor Product and Services

Table 68. Senseca Italy S.r.l. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Senseca Italy S.r.l. Recent Developments/Updates

Table 70. Solar Light Company, LLC Basic Information, Manufacturing Base and Competitors

Table 71. Solar Light Company, LLC Major Business

Table 72. Solar Light Company, LLC Shortwave Radiation Sensor Product and Services

Table 73. Solar Light Company, LLC Shortwave Radiation Sensor Sales Quantity

(Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Solar Light Company, LLC Recent Developments/Updates

Table 75. IMT Technology GmbH Basic Information, Manufacturing Base and Competitors

Table 76. IMT Technology GmbH Major Business

Table 77. IMT Technology GmbH Shortwave Radiation Sensor Product and Services

Table 78. IMT Technology GmbH Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. IMT Technology GmbH Recent Developments/Updates

Table 80. Skye Instruments Ltd. Basic Information, Manufacturing Base and Competitors

Table 81. Skye Instruments Ltd. Major Business

Table 82. Skye Instruments Ltd. Shortwave Radiation Sensor Product and Services

Table 83. Skye Instruments Ltd. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Skye Instruments Ltd. Recent Developments/Updates

Table 85. Hunan Rika Electronic Tech Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 86. Hunan Rika Electronic Tech Co., Ltd. Major Business

Table 87. Hunan Rika Electronic Tech Co., Ltd. Shortwave Radiation Sensor Product and Services

Table 88. Hunan Rika Electronic Tech Co., Ltd. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. Hunan Rika Electronic Tech Co., Ltd. Recent Developments/Updates

Table 90. Shandong Renke Control Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 91. Shandong Renke Control Technology Co., Ltd. Major Business

Table 92. Shandong Renke Control Technology Co., Ltd. Shortwave Radiation Sensor Product and Services

Table 93. Shandong Renke Control Technology Co., Ltd. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 94. Shandong Renke Control Technology Co., Ltd. Recent Developments/Updates

Table 95. Shandong Tianhe Environment Technology Co., Ltd. Basic Information,

Manufacturing Base and Competitors

Table 96. Shandong Tianhe Environment Technology Co., Ltd. Major Business

Table 97. Shandong Tianhe Environment Technology Co., Ltd. Shortwave Radiation Sensor Product and Services

Table 98. Shandong Tianhe Environment Technology Co., Ltd. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 99. Shandong Tianhe Environment Technology Co., Ltd. Recent Developments/Updates

Table 100. Seeed Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 101. Seeed Technology Co., Ltd. Major Business

Table 102. Seeed Technology Co., Ltd. Shortwave Radiation Sensor Product and Services

Table 103. Seeed Technology Co., Ltd. Shortwave Radiation Sensor Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Seeed Technology Co., Ltd. Recent Developments/Updates

Table 105. Global Shortwave Radiation Sensor Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 106. Global Shortwave Radiation Sensor Revenue by Manufacturer (2021-2026) & (USD Million)

Table 107. Global Shortwave Radiation Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 108. Market Position of Manufacturers in Shortwave Radiation Sensor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 109. Head Office and Shortwave Radiation Sensor Production Site of Key Manufacturer

Table 110. Shortwave Radiation Sensor Market: Company Product Type Footprint

Table 111. Shortwave Radiation Sensor Market: Company Product Application Footprint

Table 112. Shortwave Radiation Sensor New Market Entrants and Barriers to Market Entry

Table 113. Shortwave Radiation Sensor Mergers, Acquisition, Agreements, and Collaborations

Table 114. Global Shortwave Radiation Sensor Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 115. Global Shortwave Radiation Sensor Sales Quantity by Region (2021-2026) & (Units)

Table 116. Global Shortwave Radiation Sensor Sales Quantity by Region (2027-2032)

& (Units)

Table 117. Global Shortwave Radiation Sensor Consumption Value by Region (2021-2026) & (USD Million)

Table 118. Global Shortwave Radiation Sensor Consumption Value by Region (2027-2032) & (USD Million)

Table 119. Global Shortwave Radiation Sensor Average Price by Region (2021-2026) & (US\$/Unit)

Table 120. Global Shortwave Radiation Sensor Average Price by Region (2027-2032) & (US\$/Unit)

Table 121. Global Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2026) & (Units)

Table 122. Global Shortwave Radiation Sensor Sales Quantity by Detection Principle (2027-2032) & (Units)

Table 123. Global Shortwave Radiation Sensor Consumption Value by Detection Principle (2021-2026) & (USD Million)

Table 124. Global Shortwave Radiation Sensor Consumption Value by Detection Principle (2027-2032) & (USD Million)

Table 125. Global Shortwave Radiation Sensor Average Price by Detection Principle (2021-2026) & (US\$/Unit)

Table 126. Global Shortwave Radiation Sensor Average Price by Detection Principle (2027-2032) & (US\$/Unit)

Table 127. Global Shortwave Radiation Sensor Sales Quantity by Application (2021-2026) & (Units)

Table 128. Global Shortwave Radiation Sensor Sales Quantity by Application (2027-2032) & (Units)

Table 129. Global Shortwave Radiation Sensor Consumption Value by Application (2021-2026) & (USD Million)

Table 130. Global Shortwave Radiation Sensor Consumption Value by Application (2027-2032) & (USD Million)

Table 131. Global Shortwave Radiation Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 132. Global Shortwave Radiation Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 133. North America Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2026) & (Units)

Table 134. North America Shortwave Radiation Sensor Sales Quantity by Detection Principle (2027-2032) & (Units)

Table 135. North America Shortwave Radiation Sensor Sales Quantity by Application (2021-2026) & (Units)

Table 136. North America Shortwave Radiation Sensor Sales Quantity by Application (2027-2032) & (Units)

Table 137. North America Shortwave Radiation Sensor Sales Quantity by Country (2021-2026) & (Units)

Table 138. North America Shortwave Radiation Sensor Sales Quantity by Country (2027-2032) & (Units)

Table 139. North America Shortwave Radiation Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 140. North America Shortwave Radiation Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 141. Europe Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2026) & (Units)

Table 142. Europe Shortwave Radiation Sensor Sales Quantity by Detection Principle (2027-2032) & (Units)

Table 143. Europe Shortwave Radiation Sensor Sales Quantity by Application (2021-2026) & (Units)

Table 144. Europe Shortwave Radiation Sensor Sales Quantity by Application (2027-2032) & (Units)

Table 145. Europe Shortwave Radiation Sensor Sales Quantity by Country (2021-2026) & (Units)

Table 146. Europe Shortwave Radiation Sensor Sales Quantity by Country (2027-2032) & (Units)

Table 147. Europe Shortwave Radiation Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 148. Europe Shortwave Radiation Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 149. Asia-Pacific Shortwave Radiation Sensor Sales Quantity by Detection Principle (2021-2026) & (Units)

Table 150. Asia-Pacific Shortwave Radiation Sensor Sales Quantity by Detection Principle (2027-2032) & (Units)

Table 151. Asia-Pacific Shortwave Radiation Sensor Sales Quantity by Application (2021-2026) & (Units)

Table 152. Asia-Pacific Shortwave Radiation Sensor Sales Quantity by Application (2027-2032) & (Units)

Table 153. Asia-Pacific Shortwave Radiation Sensor Sales Quantity by Region (2021-2026) & (Units)

Table 154. Asia-Pacific Shortwave Radiation Sensor Sales Quantity by Region (2027-2032) & (Units)

Table 155. Asia-Pacific Shortwave Radiation Sensor Consumption Value by Region

(2021-2026) & (USD Million)

Table 156. Asia-Pacific Shortwave Radiation Sensor Consumption Value by Region
(2027-2032) & (USD Million)

Table 157. South America Shortwave Radiation Sensor Sales Quantity by Detection
Principle (2021-2026) & (Units)

Table 158. South America Shortwave Radiation Sensor Sales Quantity by Detection
Principle (2027-2032) & (Units)

Table 159. South America Shortwave Radiation Sensor Sales Quantity by Application
(2021-2026) & (Units)

Table 160. South America Shortwave Radiation Sensor Sales Quantity by Application
(2027-2032) & (Units)

Table 161. South America Shortwave Radiation Sensor Sales Quantity by Country
(2021-2026) & (Units)

Table 162. South America Shortwave Radiation Sensor Sales Quantity by Country
(2027-2032) & (Units)

Table 163. South America Shortwave Radiation Sensor Consumption Value by Country
(2021-2026) & (USD Million)

Table 164. South America Shortwave Radiation Sensor Consumption Value by Country
(2027-2032) & (USD Million)

Table 165. Middle East & Africa Shortwave Radiation Sensor Sales Quantity by
Detection Principle (2021-2026) & (Units)

Table 166. Middle East & Africa Shortwave Radiation Sensor Sales Quantity by
Detection Principle (2027-2032) & (Units)

Table 167. Middle East & Africa Shortwave Radiation Sensor Sales Quantity by
Application (2021-2026) & (Units)

Table 168. Middle East & Africa Shortwave Radiation Sensor Sales Quantity by
Application (2027-2032) & (Units)

Table 169. Middle East & Africa Shortwave Radiation Sensor Sales Quantity by Country
(2021-2026) & (Units)

Table 170. Middle East & Africa Shortwave Radiation Sensor Sales Quantity by Country
(2027-2032) & (Units)

Table 171. Middle East & Africa Shortwave Radiation Sensor Consumption Value by
Country (2021-2026) & (USD Million)

Table 172. Middle East & Africa Shortwave Radiation Sensor Consumption Value by
Country (2027-2032) & (USD Million)

Table 173. Shortwave Radiation Sensor Raw Material

Table 174. Key Manufacturers of Shortwave Radiation Sensor Raw Materials

Table 175. Shortwave Radiation Sensor Typical Distributors

Table 176. Shortwave Radiation Sensor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Shortwave Radiation Sensor Picture

Figure 2. Global Shortwave Radiation Sensor Revenue by Detection Principle, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Shortwave Radiation Sensor Revenue Market Share by Detection Principle in 2025

Figure 4. Thermopile Examples

Figure 5. Silicon Photovoltaic Examples

Figure 6. Other Examples

Figure 7. Global Shortwave Radiation Sensor Revenue by Precision Grade, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Shortwave Radiation Sensor Revenue Market Share by Precision Grade in 2025

Figure 9. Class A Examples

Figure 10. Class B Examples

Figure 11. Class C Examples

Figure 12. Other Examples

Figure 13. Global Shortwave Radiation Sensor Revenue by Output Interface, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Shortwave Radiation Sensor Revenue Market Share by Output Interface in 2025

Figure 15. Passive Millivolt Output Examples

Figure 16. Analog Voltage Output Examples

Figure 17. Analog Current Output Examples

Figure 18. RS485 Modbus Output Examples

Figure 19. SDI-12 Output Examples

Figure 20. Wireless IoT Output Examples

Figure 21. Other Examples

Figure 22. Other Examples

Figure 23. Global Shortwave Radiation Sensor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 24. Global Shortwave Radiation Sensor Revenue Market Share by Application in 2025

Figure 25. Photovoltaic Plant Performance Monitoring Examples

Figure 26. Meteorological and Climate Observation Examples

Figure 27. Agricultural Ecological and Hydrological Monitoring Examples

Figure 28. Building Energy Management Examples

Figure 29. Material Aging and Environmental Testing Examples

Figure 30. Other Examples

Figure 31. Global Shortwave Radiation Sensor Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 32. Global Shortwave Radiation Sensor Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 33. Global Shortwave Radiation Sensor Sales Quantity (2021-2032) & (Units)

Figure 34. Global Shortwave Radiation Sensor Price (2021-2032) & (US\$/Unit)

Figure 35. Global Shortwave Radiation Sensor Sales Quantity Market Share by Manufacturer in 2025

Figure 36. Global Shortwave Radiation Sensor Revenue Market Share by Manufacturer in 2025

Figure 37. Producer Shipments of Shortwave Radiation Sensor by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 38. Top 3 Shortwave Radiation Sensor Manufacturer (Revenue) Market Share in 2025

Figure 39. Top 6 Shortwave Radiation Sensor Manufacturer (Revenue) Market Share in 2025

Figure 40. Global Shortwave Radiation Sensor Sales Quantity Market Share by Region (2021-2032)

Figure 41. Global Shortwave Radiation Sensor Consumption Value Market Share by Region (2021-2032)

Figure 42. North America Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 43. Europe Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 44. Asia-Pacific Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 45. South America Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 46. Middle East & Africa Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 47. Global Shortwave Radiation Sensor Sales Quantity Market Share by Detection Principle (2021-2032)

Figure 48. Global Shortwave Radiation Sensor Consumption Value Market Share by Detection Principle (2021-2032)

Figure 49. Global Shortwave Radiation Sensor Average Price by Detection Principle (2021-2032) & (US\$/Unit)

Figure 50. Global Shortwave Radiation Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 51. Global Shortwave Radiation Sensor Revenue Market Share by Application (2021-2032)

Figure 52. Global Shortwave Radiation Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 53. North America Shortwave Radiation Sensor Sales Quantity Market Share by Detection Principle (2021-2032)

Figure 54. North America Shortwave Radiation Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 55. North America Shortwave Radiation Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 56. North America Shortwave Radiation Sensor Consumption Value Market Share by Country (2021-2032)

Figure 57. United States Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 58. Canada Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 59. Mexico Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 60. Europe Shortwave Radiation Sensor Sales Quantity Market Share by Detection Principle (2021-2032)

Figure 61. Europe Shortwave Radiation Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 62. Europe Shortwave Radiation Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 63. Europe Shortwave Radiation Sensor Consumption Value Market Share by Country (2021-2032)

Figure 64. Germany Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 65. France Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 66. United Kingdom Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 67. Russia Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 68. Italy Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 69. Asia-Pacific Shortwave Radiation Sensor Sales Quantity Market Share by

Detection Principle (2021-2032)

Figure 70. Asia-Pacific Shortwave Radiation Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 71. Asia-Pacific Shortwave Radiation Sensor Sales Quantity Market Share by Region (2021-2032)

Figure 72. Asia-Pacific Shortwave Radiation Sensor Consumption Value Market Share by Region (2021-2032)

Figure 73. China Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 74. Japan Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 75. South Korea Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 76. India Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 77. Southeast Asia Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 78. Australia Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 79. South America Shortwave Radiation Sensor Sales Quantity Market Share by Detection Principle (2021-2032)

Figure 80. South America Shortwave Radiation Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 81. South America Shortwave Radiation Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 82. South America Shortwave Radiation Sensor Consumption Value Market Share by Country (2021-2032)

Figure 83. Brazil Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 84. Argentina Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 85. Middle East & Africa Shortwave Radiation Sensor Sales Quantity Market Share by Detection Principle (2021-2032)

Figure 86. Middle East & Africa Shortwave Radiation Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 87. Middle East & Africa Shortwave Radiation Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 88. Middle East & Africa Shortwave Radiation Sensor Consumption Value Market Share by Country (2021-2032)

Figure 89. Turkey Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 90. Egypt Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 91. Saudi Arabia Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 92. South Africa Shortwave Radiation Sensor Consumption Value (2021-2032) & (USD Million)

Figure 93. Shortwave Radiation Sensor Market Drivers

Figure 94. Shortwave Radiation Sensor Market Restraints

Figure 95. Shortwave Radiation Sensor Market Trends

Figure 96. Porters Five Forces Analysis

Figure 97. Manufacturing Cost Structure Analysis of Shortwave Radiation Sensor in 2025

Figure 98. Manufacturing Process Analysis of Shortwave Radiation Sensor

Figure 99. Shortwave Radiation Sensor Industrial Chain

Figure 100. Sales Channel: Direct to End-User vs Distributors

Figure 101. Direct Channel Pros & Cons

Figure 102. Indirect Channel Pros & Cons

Figure 103. Methodology

Figure 104. Research Process and Data Source

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