

Global Photosensitive Semiconductor Device Market Growth 2026-2032

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Abstracts

The global Photosensitive Semiconductor Device market size is predicted to grow from US\$ 4500 million in 2025 to US\$ 7892 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 2032.

Photosensitive semiconductor devices refer to a broad category of semiconductor components that generate measurable electrical responses to incident light based on semiconductor band structure and photoelectric effects. This category encompasses photodiodes, phototransistors, CCD and CMOS image sensors, avalanche photodiodes, infrared detectors, and other specialized sensing chips, serving a wide range of imaging, detection, control, and measurement systems. Positioned upstream of optical systems and end equipment, these devices concentrate value in material selection, device architecture, process capability, and long-term reliability, forming the fundamental performance ceiling for downstream systems. As end applications evolve toward higher precision, integration, and intelligence, photosensitive semiconductor devices are increasingly shifting from functional components to core enablers of system differentiation and performance leadership.

From both demand and supply perspectives, growth momentum is driven by continuous upgrades in sensing capability and information acquisition across electronic systems. Industrial automation, automotive electronics, advanced manufacturing, and high-end imaging equipment increasingly rely on stable, scalable, and high-performance photosensitive devices. In parallel, advances in semiconductor processing continue to expand device response speed, sensitivity, noise control, and spectral coverage. On the policy front, sustained government investment in advanced manufacturing, sensing technologies, and information infrastructure across major economies provides a relatively stable environment for long-term development. At the same time,

diversification in material systems, multiple process pathways, and extended development cycles for high-end devices create a market characterized by high entry barriers, measured expansion, and durable competitive advantages.

Within the supply chain, upstream segments include high-purity silicon, compound semiconductor substrates, epitaxial materials, and critical fabrication equipment, all of which directly influence yield and consistency. The midstream, covering device design, wafer fabrication, packaging, and testing, represents the highest concentration of value and technical complexity. Downstream demand spans imaging systems, automotive electronics, industrial inspection, consumer electronics, and scientific instrumentation, featuring broad diversification and structural stability. Companies such as Canon, Sony, Panasonic, Hamamatsu Photonics, Teledyne Technologies, Bosch, DENSO, and Toshiba have consistently highlighted sustained investment in image sensors and industrial or automotive photosensitive devices in official disclosures, underscoring their strategic importance within core technology portfolios.

In terms of segmentation trends, demand is expanding beyond conventional visible-light imaging toward multispectral sensing, high dynamic range, and robust environmental perception. Automotive and industrial applications impose stringent requirements on reliability, longevity, and environmental tolerance, shaping technology paths distinct from consumer electronics. Medical imaging, scientific research, and security systems continue to drive demand for low-noise, high-sensitivity detectors, supporting the development of specialized high-end devices. Meanwhile, consumer electronics remain a critical force for manufacturing scale and process maturity, creating a balanced structure in which performance-driven innovation and volume-driven efficiency reinforce each other.

Regionally, North America and Europe maintain strengths in high-end industrial, scientific, and aerospace-related photosensitive devices, emphasizing customization and long-term reliability. Japan retains deep industrial foundations in image sensors and precision optoelectronic components, with enterprises serving global high-end manufacturing and imaging markets. China and the broader Asia-Pacific region, supported by rapid growth in consumer electronics, automotive electronics, and industrial automation, are progressively strengthening local manufacturing and supply ecosystems, forming a positive cycle from application-driven demand to manufacturing capability enhancement. Other regions primarily participate through system integration and application-level innovation.

Recent developments further illustrate this trajectory. In 2021, Sony Group emphasized

imaging and sensing solutions as a core pillar of its long-term strategy in its annual report, reinforcing investment in advanced image sensor development and capacity. In 2022, Bosch announced through official communications its continued strengthening of automotive and industrial sensor businesses, highlighting the foundational role of sensing in automation systems. In 2023, Hamamatsu Photonics disclosed its long-term R&D focus on photodetection and measurement technologies, targeting high-sensitivity and professional applications. Together, these developments reflect the steadily rising strategic value of photosensitive semiconductor devices across multiple critical industries.

LP Information, Inc. (LPI) ' newest research report, the "Photosensitive Semiconductor Device Industry Forecast" looks at past sales and reviews total world Photosensitive Semiconductor Device sales in 2025, providing a comprehensive analysis by region and market sector of projected Photosensitive Semiconductor Device sales for 2026 through 2032. With Photosensitive Semiconductor Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Photosensitive Semiconductor Device industry.

This Insight Report provides a comprehensive analysis of the global Photosensitive Semiconductor Device landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Photosensitive Semiconductor Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Photosensitive Semiconductor Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photosensitive Semiconductor Device and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Photosensitive Semiconductor Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Photosensitive Semiconductor Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Photocell

Photodiode

Phototransistor

Photoresistor

Photo IC

Segmentation by Manufacturing Process Classification:

Monolithic Integrated Photonic Device

Discrete Photonic Semiconductor Device

Hybrid IC Photonic Device

Segmentation by Material System Classification:

Silicon based Photonic Device

III?V Compound Semiconductor Device

Organic / 2D Materials Semiconductor Device

Segmentation by Application:

Automotive and Transportation

Consumer Electronics

Aerospace and Defence

Healthcare

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Canon Inc.

DENSO Corporation

FUJIFILM Holdings Corporation

Hamamatsu Photonics K.K.

Panasonic Corporation

Robert Bosch GmbH

SK Hynix Inc.

Sony Group Corp.

Teledyne Technologies Incorporated

ams OSRAM AG

Diodes Incorporated

Jenoptik AG

Mitsubishi Electric Corporation

OmniVision Technologies, Inc.

ON Semiconductor Corporation

Renesas Electronics Corporation

ROHM Co., Ltd.

Samsung Electronics Co., Ltd.

Sanan Optoelectronics Co., Ltd.

Microchip Technology Inc.

Broadcom Inc.

STMicroelectronics

Texas Instruments Inc.

Analog Devices Inc.

Wolfspeed

Lattice Semiconductor Corporation

Vishay Intertechnology, Inc.

OSI Optoelectronics

Beijing San'an Optoelectronics Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Photosensitive Semiconductor Device market?

What factors are driving Photosensitive Semiconductor Device market growth, globally and by region?

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

How do Photosensitive Semiconductor Device market opportunities vary by end market size?

How does Photosensitive Semiconductor Device break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Photosensitive Semiconductor Device Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Photosensitive Semiconductor Device by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Photosensitive Semiconductor Device by Country/Region, 2021, 2025 & 2032

2.2 Photosensitive Semiconductor Device Segment by Type

- 2.2.1 Photocell
- 2.2.2 Photodiode
- 2.2.3 Phototransistor
- 2.2.4 Photoresistor
- 2.2.5 Photo IC
- 2.2.6 Photosensitive Semiconductor Device Sales by Type
 - 2.2.6.1 Global Photosensitive Semiconductor Device Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Photosensitive Semiconductor Device Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Photosensitive Semiconductor Device Sale Price by Type (2021-2026)

2.3 Photosensitive Semiconductor Device Segment by Manufacturing Process Classification

- 2.3.1 Monolithic Integrated Photonic Device
- 2.3.2 Discrete Photonic Semiconductor Device
- 2.3.3 Hybrid IC Photonic Device
- 2.3.4 Photosensitive Semiconductor Device Sales by Manufacturing Process

Classification

2.3.4.1 Global Photosensitive Semiconductor Device Sales Market Share by Manufacturing Process Classification (2021-2026)

2.3.4.2 Global Photosensitive Semiconductor Device Revenue and Market Share by Manufacturing Process Classification (2021-2026)

2.3.4.3 Global Photosensitive Semiconductor Device Sale Price by Manufacturing Process Classification (2021-2026)

2.4 Photosensitive Semiconductor Device Segment by Material System Classification

2.4.1 Silicon based Photonic Device

2.4.2 III?V Compound Semiconductor Device

2.4.3 Organic / 2D Materials Semiconductor Device

2.4.4 Photosensitive Semiconductor Device Sales by Material System Classification

2.4.4.1 Global Photosensitive Semiconductor Device Sales Market Share by Material System Classification (2021-2026)

2.4.4.2 Global Photosensitive Semiconductor Device Revenue and Market Share by Material System Classification (2021-2026)

2.4.4.3 Global Photosensitive Semiconductor Device Sale Price by Material System Classification (2021-2026)

2.5 Photosensitive Semiconductor Device Segment by Application

2.5.1 Automotive and Transportation

2.5.2 Consumer Electronics

2.5.3 Aerospace and Defence

2.5.4 Healthcare

2.5.5 Others

2.5.6 Photosensitive Semiconductor Device Sales by Application

2.5.6.1 Global Photosensitive Semiconductor Device Sale Market Share by Application (2021-2026)

2.5.6.2 Global Photosensitive Semiconductor Device Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Photosensitive Semiconductor Device Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Photosensitive Semiconductor Device Breakdown Data by Company

3.1.1 Global Photosensitive Semiconductor Device Annual Sales by Company (2021-2026)

3.1.2 Global Photosensitive Semiconductor Device Sales Market Share by Company (2021-2026)

3.2 Global Photosensitive Semiconductor Device Annual Revenue by Company (2021-2026)

3.2.1 Global Photosensitive Semiconductor Device Revenue by Company (2021-2026)

3.2.2 Global Photosensitive Semiconductor Device Revenue Market Share by Company (2021-2026)

3.3 Global Photosensitive Semiconductor Device Sale Price by Company

3.4 Key Manufacturers Photosensitive Semiconductor Device Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Photosensitive Semiconductor Device Product Location Distribution

3.4.2 Players Photosensitive Semiconductor Device Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PHOTSENSITIVE SEMICONDUCTOR DEVICE BY GEOGRAPHIC REGION

4.1 World Historic Photosensitive Semiconductor Device Market Size by Geographic Region (2021-2026)

4.1.1 Global Photosensitive Semiconductor Device Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Photosensitive Semiconductor Device Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Photosensitive Semiconductor Device Market Size by Country/Region (2021-2026)

4.2.1 Global Photosensitive Semiconductor Device Annual Sales by Country/Region (2021-2026)

4.2.2 Global Photosensitive Semiconductor Device Annual Revenue by Country/Region (2021-2026)

4.3 Americas Photosensitive Semiconductor Device Sales Growth

4.4 APAC Photosensitive Semiconductor Device Sales Growth

4.5 Europe Photosensitive Semiconductor Device Sales Growth

4.6 Middle East & Africa Photosensitive Semiconductor Device Sales Growth

5 AMERICAS

5.1 Americas Photosensitive Semiconductor Device Sales by Country

5.1.1 Americas Photosensitive Semiconductor Device Sales by Country (2021-2026)

5.1.2 Americas Photosensitive Semiconductor Device Revenue by Country
(2021-2026)

5.2 Americas Photosensitive Semiconductor Device Sales by Type (2021-2026)

5.3 Americas Photosensitive Semiconductor Device Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Photosensitive Semiconductor Device Sales by Region

6.1.1 APAC Photosensitive Semiconductor Device Sales by Region (2021-2026)

6.1.2 APAC Photosensitive Semiconductor Device Revenue by Region (2021-2026)

6.2 APAC Photosensitive Semiconductor Device Sales by Type (2021-2026)

6.3 APAC Photosensitive Semiconductor Device Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Photosensitive Semiconductor Device by Country

7.1.1 Europe Photosensitive Semiconductor Device Sales by Country (2021-2026)

7.1.2 Europe Photosensitive Semiconductor Device Revenue by Country (2021-2026)

7.2 Europe Photosensitive Semiconductor Device Sales by Type (2021-2026)

7.3 Europe Photosensitive Semiconductor Device Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Photosensitive Semiconductor Device by Country

8.1.1 Middle East & Africa Photosensitive Semiconductor Device Sales by Country (2021-2026)

8.1.2 Middle East & Africa Photosensitive Semiconductor Device Revenue by Country (2021-2026)

8.2 Middle East & Africa Photosensitive Semiconductor Device Sales by Type (2021-2026)

8.3 Middle East & Africa Photosensitive Semiconductor Device Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Photosensitive Semiconductor Device

10.3 Manufacturing Process Analysis of Photosensitive Semiconductor Device

10.4 Industry Chain Structure of Photosensitive Semiconductor Device

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Photosensitive Semiconductor Device Distributors

11.3 Photosensitive Semiconductor Device Customer

12 WORLD FORECAST REVIEW FOR PHOTSENSITIVE SEMICONDUCTOR

DEVICE BY GEOGRAPHIC REGION

- 12.1 Global Photosensitive Semiconductor Device Market Size Forecast by Region
 - 12.1.1 Global Photosensitive Semiconductor Device Forecast by Region (2027-2032)
 - 12.1.2 Global Photosensitive Semiconductor Device Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Photosensitive Semiconductor Device Forecast by Type (2027-2032)
- 12.7 Global Photosensitive Semiconductor Device Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Canon Inc.
 - 13.1.1 Canon Inc. Company Information
 - 13.1.2 Canon Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.1.3 Canon Inc. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Canon Inc. Main Business Overview
 - 13.1.5 Canon Inc. Latest Developments
- 13.2 DENSO Corporation
 - 13.2.1 DENSO Corporation Company Information
 - 13.2.2 DENSO Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.2.3 DENSO Corporation Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 DENSO Corporation Main Business Overview
 - 13.2.5 DENSO Corporation Latest Developments
- 13.3 FUJIFILM Holdings Corporation
 - 13.3.1 FUJIFILM Holdings Corporation Company Information
 - 13.3.2 FUJIFILM Holdings Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.3.3 FUJIFILM Holdings Corporation Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 FUJIFILM Holdings Corporation Main Business Overview
 - 13.3.5 FUJIFILM Holdings Corporation Latest Developments

13.4 Hamamatsu Photonics K.K.

13.4.1 Hamamatsu Photonics K.K. Company Information

13.4.2 Hamamatsu Photonics K.K. Photosensitive Semiconductor Device Product Portfolios and Specifications

13.4.3 Hamamatsu Photonics K.K. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Hamamatsu Photonics K.K. Main Business Overview

13.4.5 Hamamatsu Photonics K.K. Latest Developments

13.5 Panasonic Corporation

13.5.1 Panasonic Corporation Company Information

13.5.2 Panasonic Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications

13.5.3 Panasonic Corporation Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Panasonic Corporation Main Business Overview

13.5.5 Panasonic Corporation Latest Developments

13.6 Robert Bosch GmbH

13.6.1 Robert Bosch GmbH Company Information

13.6.2 Robert Bosch GmbH Photosensitive Semiconductor Device Product Portfolios and Specifications

13.6.3 Robert Bosch GmbH Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Robert Bosch GmbH Main Business Overview

13.6.5 Robert Bosch GmbH Latest Developments

13.7 SK Hynix Inc.

13.7.1 SK Hynix Inc. Company Information

13.7.2 SK Hynix Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

13.7.3 SK Hynix Inc. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 SK Hynix Inc. Main Business Overview

13.7.5 SK Hynix Inc. Latest Developments

13.8 Sony Group Corp.

13.8.1 Sony Group Corp. Company Information

13.8.2 Sony Group Corp. Photosensitive Semiconductor Device Product Portfolios and Specifications

13.8.3 Sony Group Corp. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Sony Group Corp. Main Business Overview

- 13.8.5 Sony Group Corp. Latest Developments
- 13.9 Teledyne Technologies Incorporated
 - 13.9.1 Teledyne Technologies Incorporated Company Information
 - 13.9.2 Teledyne Technologies Incorporated Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.9.3 Teledyne Technologies Incorporated Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Teledyne Technologies Incorporated Main Business Overview
 - 13.9.5 Teledyne Technologies Incorporated Latest Developments
- 13.10 ams OSRAM AG
 - 13.10.1 ams OSRAM AG Company Information
 - 13.10.2 ams OSRAM AG Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.10.3 ams OSRAM AG Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 ams OSRAM AG Main Business Overview
 - 13.10.5 ams OSRAM AG Latest Developments
- 13.11 Diodes Incorporated
 - 13.11.1 Diodes Incorporated Company Information
 - 13.11.2 Diodes Incorporated Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.11.3 Diodes Incorporated Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Diodes Incorporated Main Business Overview
 - 13.11.5 Diodes Incorporated Latest Developments
- 13.12 Jenoptik AG
 - 13.12.1 Jenoptik AG Company Information
 - 13.12.2 Jenoptik AG Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.12.3 Jenoptik AG Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Jenoptik AG Main Business Overview
 - 13.12.5 Jenoptik AG Latest Developments
- 13.13 Mitsubishi Electric Corporation
 - 13.13.1 Mitsubishi Electric Corporation Company Information
 - 13.13.2 Mitsubishi Electric Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.13.3 Mitsubishi Electric Corporation Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.13.4 Mitsubishi Electric Corporation Main Business Overview
- 13.13.5 Mitsubishi Electric Corporation Latest Developments
- 13.14 OmniVision Technologies, Inc.
 - 13.14.1 OmniVision Technologies, Inc. Company Information
 - 13.14.2 OmniVision Technologies, Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.14.3 OmniVision Technologies, Inc. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 OmniVision Technologies, Inc. Main Business Overview
 - 13.14.5 OmniVision Technologies, Inc. Latest Developments
- 13.15 ON Semiconductor Corporation
 - 13.15.1 ON Semiconductor Corporation Company Information
 - 13.15.2 ON Semiconductor Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.15.3 ON Semiconductor Corporation Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 ON Semiconductor Corporation Main Business Overview
 - 13.15.5 ON Semiconductor Corporation Latest Developments
- 13.16 Renesas Electronics Corporation
 - 13.16.1 Renesas Electronics Corporation Company Information
 - 13.16.2 Renesas Electronics Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.16.3 Renesas Electronics Corporation Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Renesas Electronics Corporation Main Business Overview
 - 13.16.5 Renesas Electronics Corporation Latest Developments
- 13.17 ROHM Co., Ltd.
 - 13.17.1 ROHM Co., Ltd. Company Information
 - 13.17.2 ROHM Co., Ltd. Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.17.3 ROHM Co., Ltd. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 ROHM Co., Ltd. Main Business Overview
 - 13.17.5 ROHM Co., Ltd. Latest Developments
- 13.18 Samsung Electronics Co., Ltd.
 - 13.18.1 Samsung Electronics Co., Ltd. Company Information
 - 13.18.2 Samsung Electronics Co., Ltd. Photosensitive Semiconductor Device Product Portfolios and Specifications
 - 13.18.3 Samsung Electronics Co., Ltd. Photosensitive Semiconductor Device Sales,

Revenue, Price and Gross Margin (2021-2026)

13.18.4 Samsung Electronics Co., Ltd. Main Business Overview

13.18.5 Samsung Electronics Co., Ltd. Latest Developments

13.19 Sanan Optoelectronics Co., Ltd.

13.19.1 Sanan Optoelectronics Co., Ltd. Company Information

13.19.2 Sanan Optoelectronics Co., Ltd. Photosensitive Semiconductor Device

Product Portfolios and Specifications

13.19.3 Sanan Optoelectronics Co., Ltd. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Sanan Optoelectronics Co., Ltd. Main Business Overview

13.19.5 Sanan Optoelectronics Co., Ltd. Latest Developments

13.20 Microchip Technology Inc.

13.20.1 Microchip Technology Inc. Company Information

13.20.2 Microchip Technology Inc. Photosensitive Semiconductor Device Product

Portfolios and Specifications

13.20.3 Microchip Technology Inc. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 Microchip Technology Inc. Main Business Overview

13.20.5 Microchip Technology Inc. Latest Developments

13.21 Broadcom Inc.

13.21.1 Broadcom Inc. Company Information

13.21.2 Broadcom Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

13.21.3 Broadcom Inc. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 Broadcom Inc. Main Business Overview

13.21.5 Broadcom Inc. Latest Developments

13.22 STMicroelectronics

13.22.1 STMicroelectronics Company Information

13.22.2 STMicroelectronics Photosensitive Semiconductor Device Product Portfolios and Specifications

13.22.3 STMicroelectronics Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.22.4 STMicroelectronics Main Business Overview

13.22.5 STMicroelectronics Latest Developments

13.23 Texas Instruments Inc.

13.23.1 Texas Instruments Inc. Company Information

13.23.2 Texas Instruments Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

13.23.3 Texas Instruments Inc. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.23.4 Texas Instruments Inc. Main Business Overview

13.23.5 Texas Instruments Inc. Latest Developments

13.24 Analog Devices Inc.

13.24.1 Analog Devices Inc. Company Information

13.24.2 Analog Devices Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

13.24.3 Analog Devices Inc. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.24.4 Analog Devices Inc. Main Business Overview

13.24.5 Analog Devices Inc. Latest Developments

13.25 Wolfspeed

13.25.1 Wolfspeed Company Information

13.25.2 Wolfspeed Photosensitive Semiconductor Device Product Portfolios and Specifications

13.25.3 Wolfspeed Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.25.4 Wolfspeed Main Business Overview

13.25.5 Wolfspeed Latest Developments

13.26 Lattice Semiconductor Corporation

13.26.1 Lattice Semiconductor Corporation Company Information

13.26.2 Lattice Semiconductor Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications

13.26.3 Lattice Semiconductor Corporation Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.26.4 Lattice Semiconductor Corporation Main Business Overview

13.26.5 Lattice Semiconductor Corporation Latest Developments

13.27 Vishay Intertechnology, Inc.

13.27.1 Vishay Intertechnology, Inc. Company Information

13.27.2 Vishay Intertechnology, Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

13.27.3 Vishay Intertechnology, Inc. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.27.4 Vishay Intertechnology, Inc. Main Business Overview

13.27.5 Vishay Intertechnology, Inc. Latest Developments

13.28 OSI Optoelectronics

13.28.1 OSI Optoelectronics Company Information

13.28.2 OSI Optoelectronics Photosensitive Semiconductor Device Product Portfolios

and Specifications

13.28.3 OSI Optoelectronics Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.28.4 OSI Optoelectronics Main Business Overview

13.28.5 OSI Optoelectronics Latest Developments

13.29 Beijing San'an Optoelectronics Co., Ltd.

13.29.1 Beijing San'an Optoelectronics Co., Ltd. Company Information

13.29.2 Beijing San'an Optoelectronics Co., Ltd. Photosensitive Semiconductor Device Product Portfolios and Specifications

13.29.3 Beijing San'an Optoelectronics Co., Ltd. Photosensitive Semiconductor Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.29.4 Beijing San'an Optoelectronics Co., Ltd. Main Business Overview

13.29.5 Beijing San'an Optoelectronics Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Photosensitive Semiconductor Device Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Photosensitive Semiconductor Device Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Photocell

Table 4. Major Players of Photodiode

Table 5. Major Players of Phototransistor

Table 6. Major Players of Photoresistor

Table 7. Major Players of Photo IC

Table 8. Global Photosensitive Semiconductor Device Sales by Type (2021-2026) & (K Units)

Table 9. Global Photosensitive Semiconductor Device Sales Market Share by Type (2021-2026)

Table 10. Global Photosensitive Semiconductor Device Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Photosensitive Semiconductor Device Revenue Market Share by Type (2021-2026)

Table 12. Global Photosensitive Semiconductor Device Sale Price by Type (2021-2026) & (US\$/Unit)

Table 13. Major Players of Monolithic Integrated Photonic Device

Table 14. Major Players of Discrete Photonic Semiconductor Device

Table 15. Major Players of Hybrid IC Photonic Device

Table 16. Global Photosensitive Semiconductor Device Sales by Manufacturing Process Classification (2021-2026) & (K Units)

Table 17. Global Photosensitive Semiconductor Device Sales Market Share by Manufacturing Process Classification (2021-2026)

Table 18. Global Photosensitive Semiconductor Device Revenue by Manufacturing Process Classification (2021-2026) & (\$ million)

Table 19. Global Photosensitive Semiconductor Device Revenue Market Share by Manufacturing Process Classification (2021-2026)

Table 20. Global Photosensitive Semiconductor Device Sale Price by Manufacturing Process Classification (2021-2026) & (US\$/Unit)

Table 21. Major Players of Silicon based Photonic Device

Table 22. Major Players of III?V Compound Semiconductor Device

Table 23. Major Players of Organic / 2D Materials Semiconductor Device

Table 24. Global Photosensitive Semiconductor Device Sales by Material System Classification (2021-2026) & (K Units)

Table 25. Global Photosensitive Semiconductor Device Sales Market Share by Material System Classification (2021-2026)

Table 26. Global Photosensitive Semiconductor Device Revenue by Material System Classification (2021-2026) & (\$ million)

Table 27. Global Photosensitive Semiconductor Device Revenue Market Share by Material System Classification (2021-2026)

Table 28. Global Photosensitive Semiconductor Device Sale Price by Material System Classification (2021-2026) & (US\$/Unit)

Table 29. Global Photosensitive Semiconductor Device Sale by Application (2021-2026) & (K Units)

Table 30. Global Photosensitive Semiconductor Device Sale Market Share by Application (2021-2026)

Table 31. Global Photosensitive Semiconductor Device Revenue by Application (2021-2026) & (\$ million)

Table 32. Global Photosensitive Semiconductor Device Revenue Market Share by Application (2021-2026)

Table 33. Global Photosensitive Semiconductor Device Sale Price by Application (2021-2026) & (US\$/Unit)

Table 34. Global Photosensitive Semiconductor Device Sales by Company (2021-2026) & (K Units)

Table 35. Global Photosensitive Semiconductor Device Sales Market Share by Company (2021-2026)

Table 36. Global Photosensitive Semiconductor Device Revenue by Company (2021-2026) & (\$ millions)

Table 37. Global Photosensitive Semiconductor Device Revenue Market Share by Company (2021-2026)

Table 38. Global Photosensitive Semiconductor Device Sale Price by Company (2021-2026) & (US\$/Unit)

Table 39. Key Manufacturers Photosensitive Semiconductor Device Producing Area Distribution and Sales Area

Table 40. Players Photosensitive Semiconductor Device Products Offered

Table 41. Photosensitive Semiconductor Device Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 42. New Products and Potential Entrants

Table 43. Market M&A Activity & Strategy

Table 44. Global Photosensitive Semiconductor Device Sales by Geographic Region (2021-2026) & (K Units)

Table 45. Global Photosensitive Semiconductor Device Sales Market Share Geographic Region (2021-2026)

Table 46. Global Photosensitive Semiconductor Device Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 47. Global Photosensitive Semiconductor Device Revenue Market Share by Geographic Region (2021-2026)

Table 48. Global Photosensitive Semiconductor Device Sales by Country/Region (2021-2026) & (K Units)

Table 49. Global Photosensitive Semiconductor Device Sales Market Share by Country/Region (2021-2026)

Table 50. Global Photosensitive Semiconductor Device Revenue by Country/Region (2021-2026) & (\$ millions)

Table 51. Global Photosensitive Semiconductor Device Revenue Market Share by Country/Region (2021-2026)

Table 52. Americas Photosensitive Semiconductor Device Sales by Country (2021-2026) & (K Units)

Table 53. Americas Photosensitive Semiconductor Device Sales Market Share by Country (2021-2026)

Table 54. Americas Photosensitive Semiconductor Device Revenue by Country (2021-2026) & (\$ millions)

Table 55. Americas Photosensitive Semiconductor Device Sales by Type (2021-2026) & (K Units)

Table 56. Americas Photosensitive Semiconductor Device Sales by Application (2021-2026) & (K Units)

Table 57. APAC Photosensitive Semiconductor Device Sales by Region (2021-2026) & (K Units)

Table 58. APAC Photosensitive Semiconductor Device Sales Market Share by Region (2021-2026)

Table 59. APAC Photosensitive Semiconductor Device Revenue by Region (2021-2026) & (\$ millions)

Table 60. APAC Photosensitive Semiconductor Device Sales by Type (2021-2026) & (K Units)

Table 61. APAC Photosensitive Semiconductor Device Sales by Application (2021-2026) & (K Units)

Table 62. Europe Photosensitive Semiconductor Device Sales by Country (2021-2026) & (K Units)

Table 63. Europe Photosensitive Semiconductor Device Revenue by Country (2021-2026) & (\$ millions)

Table 64. Europe Photosensitive Semiconductor Device Sales by Type (2021-2026) &

(K Units)

Table 65. Europe Photosensitive Semiconductor Device Sales by Application (2021-2026) & (K Units)

Table 66. Middle East & Africa Photosensitive Semiconductor Device Sales by Country (2021-2026) & (K Units)

Table 67. Middle East & Africa Photosensitive Semiconductor Device Revenue Market Share by Country (2021-2026)

Table 68. Middle East & Africa Photosensitive Semiconductor Device Sales by Type (2021-2026) & (K Units)

Table 69. Middle East & Africa Photosensitive Semiconductor Device Sales by Application (2021-2026) & (K Units)

Table 70. Key Market Drivers & Growth Opportunities of Photosensitive Semiconductor Device

Table 71. Key Market Challenges & Risks of Photosensitive Semiconductor Device

Table 72. Key Industry Trends of Photosensitive Semiconductor Device

Table 73. Photosensitive Semiconductor Device Raw Material

Table 74. Key Suppliers of Raw Materials

Table 75. Photosensitive Semiconductor Device Distributors List

Table 76. Photosensitive Semiconductor Device Customer List

Table 77. Global Photosensitive Semiconductor Device Sales Forecast by Region (2027-2032) & (K Units)

Table 78. Global Photosensitive Semiconductor Device Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Americas Photosensitive Semiconductor Device Sales Forecast by Country (2027-2032) & (K Units)

Table 80. Americas Photosensitive Semiconductor Device Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. APAC Photosensitive Semiconductor Device Sales Forecast by Region (2027-2032) & (K Units)

Table 82. APAC Photosensitive Semiconductor Device Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 83. Europe Photosensitive Semiconductor Device Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Europe Photosensitive Semiconductor Device Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Middle East & Africa Photosensitive Semiconductor Device Sales Forecast by Country (2027-2032) & (K Units)

Table 86. Middle East & Africa Photosensitive Semiconductor Device Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 87. Global Photosensitive Semiconductor Device Sales Forecast by Type (2027-2032) & (K Units)

Table 88. Global Photosensitive Semiconductor Device Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 89. Global Photosensitive Semiconductor Device Sales Forecast by Application (2027-2032) & (K Units)

Table 90. Global Photosensitive Semiconductor Device Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 91. Canon Inc. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 92. Canon Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 93. Canon Inc. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 94. Canon Inc. Main Business

Table 95. Canon Inc. Latest Developments

Table 96. DENSO Corporation Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 97. DENSO Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 98. DENSO Corporation Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. DENSO Corporation Main Business

Table 100. DENSO Corporation Latest Developments

Table 101. FUJIFILM Holdings Corporation Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 102. FUJIFILM Holdings Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 103. FUJIFILM Holdings Corporation Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. FUJIFILM Holdings Corporation Main Business

Table 105. FUJIFILM Holdings Corporation Latest Developments

Table 106. Hamamatsu Photonics K.K. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 107. Hamamatsu Photonics K.K. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 108. Hamamatsu Photonics K.K. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. Hamamatsu Photonics K.K. Main Business

Table 110. Hamamatsu Photonics K.K. Latest Developments

Table 111. Panasonic Corporation Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 112. Panasonic Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 113. Panasonic Corporation Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Panasonic Corporation Main Business

Table 115. Panasonic Corporation Latest Developments

Table 116. Robert Bosch GmbH Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 117. Robert Bosch GmbH Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 118. Robert Bosch GmbH Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Robert Bosch GmbH Main Business

Table 120. Robert Bosch GmbH Latest Developments

Table 121. SK Hynix Inc. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 122. SK Hynix Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 123. SK Hynix Inc. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. SK Hynix Inc. Main Business

Table 125. SK Hynix Inc. Latest Developments

Table 126. Sony Group Corp. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 127. Sony Group Corp. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 128. Sony Group Corp. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. Sony Group Corp. Main Business

Table 130. Sony Group Corp. Latest Developments

Table 131. Teledyne Technologies Incorporated Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 132. Teledyne Technologies Incorporated Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 133. Teledyne Technologies Incorporated Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

- Table 134. Teledyne Technologies Incorporated Main Business
- Table 135. Teledyne Technologies Incorporated Latest Developments
- Table 136. ams OSRAM AG Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors
- Table 137. ams OSRAM AG Photosensitive Semiconductor Device Product Portfolios and Specifications
- Table 138. ams OSRAM AG Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 139. ams OSRAM AG Main Business
- Table 140. ams OSRAM AG Latest Developments
- Table 141. Diodes Incorporated Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors
- Table 142. Diodes Incorporated Photosensitive Semiconductor Device Product Portfolios and Specifications
- Table 143. Diodes Incorporated Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 144. Diodes Incorporated Main Business
- Table 145. Diodes Incorporated Latest Developments
- Table 146. Jenoptik AG Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors
- Table 147. Jenoptik AG Photosensitive Semiconductor Device Product Portfolios and Specifications
- Table 148. Jenoptik AG Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 149. Jenoptik AG Main Business
- Table 150. Jenoptik AG Latest Developments
- Table 151. Mitsubishi Electric Corporation Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors
- Table 152. Mitsubishi Electric Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications
- Table 153. Mitsubishi Electric Corporation Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 154. Mitsubishi Electric Corporation Main Business
- Table 155. Mitsubishi Electric Corporation Latest Developments
- Table 156. OmniVision Technologies, Inc. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors
- Table 157. OmniVision Technologies, Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications
- Table 158. OmniVision Technologies, Inc. Photosensitive Semiconductor Device Sales

(K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 159. OmniVision Technologies, Inc. Main Business

Table 160. OmniVision Technologies, Inc. Latest Developments

Table 161. ON Semiconductor Corporation Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 162. ON Semiconductor Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 163. ON Semiconductor Corporation Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 164. ON Semiconductor Corporation Main Business

Table 165. ON Semiconductor Corporation Latest Developments

Table 166. Renesas Electronics Corporation Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 167. Renesas Electronics Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 168. Renesas Electronics Corporation Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 169. Renesas Electronics Corporation Main Business

Table 170. Renesas Electronics Corporation Latest Developments

Table 171. ROHM Co., Ltd. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 172. ROHM Co., Ltd. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 173. ROHM Co., Ltd. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 174. ROHM Co., Ltd. Main Business

Table 175. ROHM Co., Ltd. Latest Developments

Table 176. Samsung Electronics Co., Ltd. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 177. Samsung Electronics Co., Ltd. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 178. Samsung Electronics Co., Ltd. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 179. Samsung Electronics Co., Ltd. Main Business

Table 180. Samsung Electronics Co., Ltd. Latest Developments

Table 181. Sanan Optoelectronics Co., Ltd. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 182. Sanan Optoelectronics Co., Ltd. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 183. Sanan Optoelectronics Co., Ltd. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 184. Sanan Optoelectronics Co., Ltd. Main Business

Table 185. Sanan Optoelectronics Co., Ltd. Latest Developments

Table 186. Microchip Technology Inc. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 187. Microchip Technology Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 188. Microchip Technology Inc. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 189. Microchip Technology Inc. Main Business

Table 190. Microchip Technology Inc. Latest Developments

Table 191. Broadcom Inc. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 192. Broadcom Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 193. Broadcom Inc. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 194. Broadcom Inc. Main Business

Table 195. Broadcom Inc. Latest Developments

Table 196. STMicroelectronics Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 197. STMicroelectronics Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 198. STMicroelectronics Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 199. STMicroelectronics Main Business

Table 200. STMicroelectronics Latest Developments

Table 201. Texas Instruments Inc. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 202. Texas Instruments Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 203. Texas Instruments Inc. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 204. Texas Instruments Inc. Main Business

Table 205. Texas Instruments Inc. Latest Developments

Table 206. Analog Devices Inc. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 207. Analog Devices Inc. Photosensitive Semiconductor Device Product

Portfolios and Specifications

Table 208. Analog Devices Inc. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 209. Analog Devices Inc. Main Business

Table 210. Analog Devices Inc. Latest Developments

Table 211. Wolfspeed Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 212. Wolfspeed Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 213. Wolfspeed Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 214. Wolfspeed Main Business

Table 215. Wolfspeed Latest Developments

Table 216. Lattice Semiconductor Corporation Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 217. Lattice Semiconductor Corporation Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 218. Lattice Semiconductor Corporation Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 219. Lattice Semiconductor Corporation Main Business

Table 220. Lattice Semiconductor Corporation Latest Developments

Table 221. Vishay Intertechnology, Inc. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 222. Vishay Intertechnology, Inc. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 223. Vishay Intertechnology, Inc. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 224. Vishay Intertechnology, Inc. Main Business

Table 225. Vishay Intertechnology, Inc. Latest Developments

Table 226. OSI Optoelectronics Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 227. OSI Optoelectronics Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 228. OSI Optoelectronics Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 229. OSI Optoelectronics Main Business

Table 230. OSI Optoelectronics Latest Developments

Table 231. Beijing San'an Optoelectronics Co., Ltd. Basic Information, Photosensitive Semiconductor Device Manufacturing Base, Sales Area and Its Competitors

Table 232. Beijing San'an Optoelectronics Co., Ltd. Photosensitive Semiconductor Device Product Portfolios and Specifications

Table 233. Beijing San'an Optoelectronics Co., Ltd. Photosensitive Semiconductor Device Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 234. Beijing San'an Optoelectronics Co., Ltd. Main Business

Table 235. Beijing San'an Optoelectronics Co., Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Photosensitive Semiconductor Device
- Figure 2. Photosensitive Semiconductor Device Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Photosensitive Semiconductor Device Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Photosensitive Semiconductor Device Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Photosensitive Semiconductor Device Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Photosensitive Semiconductor Device Sales Market Share by Country/Region (2025)
- Figure 10. Photosensitive Semiconductor Device Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Photocell
- Figure 12. Product Picture of Photodiode
- Figure 13. Product Picture of Phototransistor
- Figure 14. Product Picture of Photoresistor
- Figure 15. Product Picture of Photo IC
- Figure 16. Global Photosensitive Semiconductor Device Sales Market Share by Type in 2026
- Figure 17. Global Photosensitive Semiconductor Device Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of Monolithic Integrated Photonic Device
- Figure 19. Product Picture of Discrete Photonic Semiconductor Device
- Figure 20. Product Picture of Hybrid IC Photonic Device
- Figure 21. Global Photosensitive Semiconductor Device Sales Market Share by Manufacturing Process Classification in 2026
- Figure 22. Global Photosensitive Semiconductor Device Revenue Market Share by Manufacturing Process Classification (2021-2026)
- Figure 23. Product Picture of Silicon based Photonic Device
- Figure 24. Product Picture of III?V Compound Semiconductor Device
- Figure 25. Product Picture of Organic / 2D Materials Semiconductor Device
- Figure 26. Global Photosensitive Semiconductor Device Sales Market Share by Material

System Classification in 2026

Figure 27. Global Photosensitive Semiconductor Device Revenue Market Share by Material System Classification (2021-2026)

Figure 28. Photosensitive Semiconductor Device Consumed in Automotive and Transportation

Figure 29. Global Photosensitive Semiconductor Device Market: Automotive and Transportation (2021-2026) & (K Units)

Figure 30. Photosensitive Semiconductor Device Consumed in Consumer Electronics

Figure 31. Global Photosensitive Semiconductor Device Market: Consumer Electronics (2021-2026) & (K Units)

Figure 32. Photosensitive Semiconductor Device Consumed in Aerospace and Defence

Figure 33. Global Photosensitive Semiconductor Device Market: Aerospace and Defence (2021-2026) & (K Units)

Figure 34. Photosensitive Semiconductor Device Consumed in Healthcare

Figure 35. Global Photosensitive Semiconductor Device Market: Healthcare (2021-2026) & (K Units)

Figure 36. Photosensitive Semiconductor Device Consumed in Others

Figure 37. Global Photosensitive Semiconductor Device Market: Others (2021-2026) & (K Units)

Figure 38. Global Photosensitive Semiconductor Device Sale Market Share by Application (2025)

Figure 39. Global Photosensitive Semiconductor Device Revenue Market Share by Application in 2025

Figure 40. Photosensitive Semiconductor Device Sales by Company in 2025 (K Units)

Figure 41. Global Photosensitive Semiconductor Device Sales Market Share by Company in 2025

Figure 42. Photosensitive Semiconductor Device Revenue by Company in 2025 (\$ millions)

Figure 43. Global Photosensitive Semiconductor Device Revenue Market Share by Company in 2025

Figure 44. Global Photosensitive Semiconductor Device Sales Market Share by Geographic Region (2021-2026)

Figure 45. Global Photosensitive Semiconductor Device Revenue Market Share by Geographic Region in 2025

Figure 46. Americas Photosensitive Semiconductor Device Sales 2021-2026 (K Units)

Figure 47. Americas Photosensitive Semiconductor Device Revenue 2021-2026 (\$ millions)

Figure 48. APAC Photosensitive Semiconductor Device Sales 2021-2026 (K Units)

Figure 49. APAC Photosensitive Semiconductor Device Revenue 2021-2026 (\$

millions)

Figure 50. Europe Photosensitive Semiconductor Device Sales 2021-2026 (K Units)

Figure 51. Europe Photosensitive Semiconductor Device Revenue 2021-2026 (\$ millions)

Figure 52. Middle East & Africa Photosensitive Semiconductor Device Sales 2021-2026 (K Units)

Figure 53. Middle East & Africa Photosensitive Semiconductor Device Revenue 2021-2026 (\$ millions)

Figure 54. Americas Photosensitive Semiconductor Device Sales Market Share by Country in 2025

Figure 55. Americas Photosensitive Semiconductor Device Revenue Market Share by Country (2021-2026)

Figure 56. Americas Photosensitive Semiconductor Device Sales Market Share by Type (2021-2026)

Figure 57. Americas Photosensitive Semiconductor Device Sales Market Share by Application (2021-2026)

Figure 58. United States Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 59. Canada Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 60. Mexico Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 61. Brazil Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 62. APAC Photosensitive Semiconductor Device Sales Market Share by Region in 2025

Figure 63. APAC Photosensitive Semiconductor Device Revenue Market Share by Region (2021-2026)

Figure 64. APAC Photosensitive Semiconductor Device Sales Market Share by Type (2021-2026)

Figure 65. APAC Photosensitive Semiconductor Device Sales Market Share by Application (2021-2026)

Figure 66. China Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 67. Japan Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Korea Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 69. Southeast Asia Photosensitive Semiconductor Device Revenue Growth

2021-2026 (\$ millions)

Figure 70. India Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 71. Australia Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 72. China Taiwan Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 73. Europe Photosensitive Semiconductor Device Sales Market Share by Country in 2025

Figure 74. Europe Photosensitive Semiconductor Device Revenue Market Share by Country (2021-2026)

Figure 75. Europe Photosensitive Semiconductor Device Sales Market Share by Type (2021-2026)

Figure 76. Europe Photosensitive Semiconductor Device Sales Market Share by Application (2021-2026)

Figure 77. Germany Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 78. France Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 79. UK Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 80. Italy Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 81. Russia Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 82. Middle East & Africa Photosensitive Semiconductor Device Sales Market Share by Country (2021-2026)

Figure 83. Middle East & Africa Photosensitive Semiconductor Device Sales Market Share by Type (2021-2026)

Figure 84. Middle East & Africa Photosensitive Semiconductor Device Sales Market Share by Application (2021-2026)

Figure 85. Egypt Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 86. South Africa Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 87. Israel Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 88. Turkey Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 89. GCC Countries Photosensitive Semiconductor Device Revenue Growth 2021-2026 (\$ millions)

Figure 90. Manufacturing Cost Structure Analysis of Photosensitive Semiconductor Device in 2026

Figure 91. Manufacturing Process Analysis of Photosensitive Semiconductor Device

Figure 92. Industry Chain Structure of Photosensitive Semiconductor Device

Figure 93. Channels of Distribution

Figure 94. Global Photosensitive Semiconductor Device Sales Market Forecast by Region (2027-2032)

Figure 95. Global Photosensitive Semiconductor Device Revenue Market Share Forecast by Region (2027-2032)

Figure 96. Global Photosensitive Semiconductor Device Sales Market Share Forecast by Type (2027-2032)

Figure 97. Global Photosensitive Semiconductor Device Revenue Market Share Forecast by Type (2027-2032)

Figure 98. Global Photosensitive Semiconductor Device Sales Market Share Forecast by Application (2027-2032)

Figure 99. Global Photosensitive Semiconductor Device Revenue Market Share Forecast by Application (2027-2032)

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