

Global Photonic Sensors and Detectors Market Growth 2025-2031

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Abstracts

The global Photonic Sensors and Detectors market size is predicted to grow from US\$ 34790 million in 2025 to US\$ 47830 million in 2031; it is expected to grow at a CAGR of 5.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Photonic sensor is a device that senses light and converts to electricity. Photonics acts as a switch between the transmitter and receiver. A photonic detector counts the number of photons of light.

United States market for Photonic Sensors and Detectors is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Photonic Sensors and Detectors is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Photonic Sensors and Detectors is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Photonic Sensors and Detectors players cover Hamamatsu Photonics, Omron, ON Semiconductor, Samsung, Sony Corporation, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Photonic Sensors and

Detectors Industry Forecast” looks at past sales and reviews total world Photonic Sensors and Detectors sales in 2024, providing a comprehensive analysis by region and market sector of projected Photonic Sensors and Detectors sales for 2025 through 2031. With Photonic Sensors and Detectors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Photonic Sensors and Detectors industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photonic Sensors and Detectors 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 Photonic Sensors and Detectors.

This report presents a comprehensive overview, market shares, and growth opportunities of Photonic Sensors and Detectors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Fibre Optic Sensors

Biophotonic Sensors

Image Sensors

Others

Segmentation by Application:

Defence & Security

Medical & Healthcare

Chemicals & Petrochemicals

Consumer Electronics

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.

Hamamatsu Photonics

Omron

ON Semiconductor

Samsung

Sony Corporation

Keyence

Pepperl+Fuchs

Prime Photonics

Banpil Photonics

NP Photonics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Photonic Sensors and Detectors market?

What factors are driving Photonic Sensors and Detectors market growth, globally and by region?

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

How do Photonic Sensors and Detectors market opportunities vary by end market size?

How does Photonic Sensors and Detectors 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 Photonic Sensors and Detectors Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Photonic Sensors and Detectors by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Photonic Sensors and Detectors by Country/Region, 2020, 2024 & 2031
- 2.2 Photonic Sensors and Detectors Segment by Type
 - 2.2.1 Fibre Optic Sensors
 - 2.2.2 Biophotonic Sensors
 - 2.2.3 Image Sensors
 - 2.2.4 Others
- 2.3 Photonic Sensors and Detectors Sales by Type
 - 2.3.1 Global Photonic Sensors and Detectors Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Photonic Sensors and Detectors Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Photonic Sensors and Detectors Sale Price by Type (2020-2025)
- 2.4 Photonic Sensors and Detectors Segment by Application
 - 2.4.1 Defence & Security
 - 2.4.2 Medical & Healthcare
 - 2.4.3 Chemicals & Petrochemicals
 - 2.4.4 Consumer Electronics
 - 2.4.5 Others
- 2.5 Photonic Sensors and Detectors Sales by Application

2.5.1 Global Photonic Sensors and Detectors Sale Market Share by Application (2020-2025)

2.5.2 Global Photonic Sensors and Detectors Revenue and Market Share by Application (2020-2025)

2.5.3 Global Photonic Sensors and Detectors Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Photonic Sensors and Detectors Breakdown Data by Company

3.1.1 Global Photonic Sensors and Detectors Annual Sales by Company (2020-2025)

3.1.2 Global Photonic Sensors and Detectors Sales Market Share by Company (2020-2025)

3.2 Global Photonic Sensors and Detectors Annual Revenue by Company (2020-2025)

3.2.1 Global Photonic Sensors and Detectors Revenue by Company (2020-2025)

3.2.2 Global Photonic Sensors and Detectors Revenue Market Share by Company (2020-2025)

3.3 Global Photonic Sensors and Detectors Sale Price by Company

3.4 Key Manufacturers Photonic Sensors and Detectors Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Photonic Sensors and Detectors Product Location Distribution

3.4.2 Players Photonic Sensors and Detectors Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PHOTONIC SENSORS AND DETECTORS BY GEOGRAPHIC REGION

4.1 World Historic Photonic Sensors and Detectors Market Size by Geographic Region (2020-2025)

4.1.1 Global Photonic Sensors and Detectors Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Photonic Sensors and Detectors Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Photonic Sensors and Detectors Market Size by Country/Region (2020-2025)

4.2.1 Global Photonic Sensors and Detectors Annual Sales by Country/Region (2020-2025)

4.2.2 Global Photonic Sensors and Detectors Annual Revenue by Country/Region (2020-2025)

4.3 Americas Photonic Sensors and Detectors Sales Growth

4.4 APAC Photonic Sensors and Detectors Sales Growth

4.5 Europe Photonic Sensors and Detectors Sales Growth

4.6 Middle East & Africa Photonic Sensors and Detectors Sales Growth

5 AMERICAS

5.1 Americas Photonic Sensors and Detectors Sales by Country

5.1.1 Americas Photonic Sensors and Detectors Sales by Country (2020-2025)

5.1.2 Americas Photonic Sensors and Detectors Revenue by Country (2020-2025)

5.2 Americas Photonic Sensors and Detectors Sales by Type (2020-2025)

5.3 Americas Photonic Sensors and Detectors Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Photonic Sensors and Detectors Sales by Region

6.1.1 APAC Photonic Sensors and Detectors Sales by Region (2020-2025)

6.1.2 APAC Photonic Sensors and Detectors Revenue by Region (2020-2025)

6.2 APAC Photonic Sensors and Detectors Sales by Type (2020-2025)

6.3 APAC Photonic Sensors and Detectors Sales by Application (2020-2025)

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 Photonic Sensors and Detectors by Country

- 7.1.1 Europe Photonic Sensors and Detectors Sales by Country (2020-2025)
- 7.1.2 Europe Photonic Sensors and Detectors Revenue by Country (2020-2025)
- 7.2 Europe Photonic Sensors and Detectors Sales by Type (2020-2025)
- 7.3 Europe Photonic Sensors and Detectors Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Photonic Sensors and Detectors by Country
 - 8.1.1 Middle East & Africa Photonic Sensors and Detectors Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Photonic Sensors and Detectors Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Photonic Sensors and Detectors Sales by Type (2020-2025)
- 8.3 Middle East & Africa Photonic Sensors and Detectors Sales by Application (2020-2025)
- 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 Photonic Sensors and Detectors
- 10.3 Manufacturing Process Analysis of Photonic Sensors and Detectors
- 10.4 Industry Chain Structure of Photonic Sensors and Detectors

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Photonic Sensors and Detectors Distributors

11.3 Photonic Sensors and Detectors Customer

12 WORLD FORECAST REVIEW FOR PHOTONIC SENSORS AND DETECTORS BY GEOGRAPHIC REGION

12.1 Global Photonic Sensors and Detectors Market Size Forecast by Region

12.1.1 Global Photonic Sensors and Detectors Forecast by Region (2026-2031)

12.1.2 Global Photonic Sensors and Detectors Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Photonic Sensors and Detectors Forecast by Type (2026-2031)

12.7 Global Photonic Sensors and Detectors Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Hamamatsu Photonics

13.1.1 Hamamatsu Photonics Company Information

13.1.2 Hamamatsu Photonics Photonic Sensors and Detectors Product Portfolios and Specifications

13.1.3 Hamamatsu Photonics Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Hamamatsu Photonics Main Business Overview

13.1.5 Hamamatsu Photonics Latest Developments

13.2 Omron

13.2.1 Omron Company Information

13.2.2 Omron Photonic Sensors and Detectors Product Portfolios and Specifications

13.2.3 Omron Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Omron Main Business Overview

13.2.5 Omron Latest Developments

13.3 ON Semiconductor

13.3.1 ON Semiconductor Company Information

13.3.2 ON Semiconductor Photonic Sensors and Detectors Product Portfolios and Specifications

13.3.3 ON Semiconductor Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 ON Semiconductor Main Business Overview

13.3.5 ON Semiconductor Latest Developments

13.4 Samsung

13.4.1 Samsung Company Information

13.4.2 Samsung Photonic Sensors and Detectors Product Portfolios and Specifications

13.4.3 Samsung Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Samsung Main Business Overview

13.4.5 Samsung Latest Developments

13.5 Sony Corporation

13.5.1 Sony Corporation Company Information

13.5.2 Sony Corporation Photonic Sensors and Detectors Product Portfolios and Specifications

13.5.3 Sony Corporation Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Sony Corporation Main Business Overview

13.5.5 Sony Corporation Latest Developments

13.6 Keyence

13.6.1 Keyence Company Information

13.6.2 Keyence Photonic Sensors and Detectors Product Portfolios and Specifications

13.6.3 Keyence Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Keyence Main Business Overview

13.6.5 Keyence Latest Developments

13.7 Pepperl+Fuchs

13.7.1 Pepperl+Fuchs Company Information

13.7.2 Pepperl+Fuchs Photonic Sensors and Detectors Product Portfolios and Specifications

13.7.3 Pepperl+Fuchs Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Pepperl+Fuchs Main Business Overview

13.7.5 Pepperl+Fuchs Latest Developments

13.8 Prime Photonics

13.8.1 Prime Photonics Company Information

13.8.2 Prime Photonics Photonic Sensors and Detectors Product Portfolios and Specifications

13.8.3 Prime Photonics Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Prime Photonics Main Business Overview

13.8.5 Prime Photonics Latest Developments

13.9 Banpil Photonics

13.9.1 Banpil Photonics Company Information

13.9.2 Banpil Photonics Photonic Sensors and Detectors Product Portfolios and Specifications

13.9.3 Banpil Photonics Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Banpil Photonics Main Business Overview

13.9.5 Banpil Photonics Latest Developments

13.10 NP Photonics

13.10.1 NP Photonics Company Information

13.10.2 NP Photonics Photonic Sensors and Detectors Product Portfolios and Specifications

13.10.3 NP Photonics Photonic Sensors and Detectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 NP Photonics Main Business Overview

13.10.5 NP Photonics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Photonic Sensors and Detectors Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Photonic Sensors and Detectors Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Fibre Optic Sensors

Table 4. Major Players of Biophotonic Sensors

Table 5. Major Players of Image Sensors

Table 6. Major Players of Others

Table 7. Global Photonic Sensors and Detectors Sales by Type (2020-2025) & (K Units)

Table 8. Global Photonic Sensors and Detectors Sales Market Share by Type (2020-2025)

Table 9. Global Photonic Sensors and Detectors Revenue by Type (2020-2025) & (\$ million)

Table 10. Global Photonic Sensors and Detectors Revenue Market Share by Type (2020-2025)

Table 11. Global Photonic Sensors and Detectors Sale Price by Type (2020-2025) & (USD/Unit)

Table 12. Global Photonic Sensors and Detectors Sale by Application (2020-2025) & (K Units)

Table 13. Global Photonic Sensors and Detectors Sale Market Share by Application (2020-2025)

Table 14. Global Photonic Sensors and Detectors Revenue by Application (2020-2025) & (\$ million)

Table 15. Global Photonic Sensors and Detectors Revenue Market Share by Application (2020-2025)

Table 16. Global Photonic Sensors and Detectors Sale Price by Application (2020-2025) & (USD/Unit)

Table 17. Global Photonic Sensors and Detectors Sales by Company (2020-2025) & (K Units)

Table 18. Global Photonic Sensors and Detectors Sales Market Share by Company (2020-2025)

Table 19. Global Photonic Sensors and Detectors Revenue by Company (2020-2025) & (\$ millions)

Table 20. Global Photonic Sensors and Detectors Revenue Market Share by Company (2020-2025)

Table 21. Global Photonic Sensors and Detectors Sale Price by Company (2020-2025) & (USD/Unit)

Table 22. Key Manufacturers Photonic Sensors and Detectors Producing Area Distribution and Sales Area

Table 23. Players Photonic Sensors and Detectors Products Offered

Table 24. Photonic Sensors and Detectors Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 25. New Products and Potential Entrants

Table 26. Market M&A Activity & Strategy

Table 27. Global Photonic Sensors and Detectors Sales by Geographic Region (2020-2025) & (K Units)

Table 28. Global Photonic Sensors and Detectors Sales Market Share Geographic Region (2020-2025)

Table 29. Global Photonic Sensors and Detectors Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 30. Global Photonic Sensors and Detectors Revenue Market Share by Geographic Region (2020-2025)

Table 31. Global Photonic Sensors and Detectors Sales by Country/Region (2020-2025) & (K Units)

Table 32. Global Photonic Sensors and Detectors Sales Market Share by Country/Region (2020-2025)

Table 33. Global Photonic Sensors and Detectors Revenue by Country/Region (2020-2025) & (\$ millions)

Table 34. Global Photonic Sensors and Detectors Revenue Market Share by Country/Region (2020-2025)

Table 35. Americas Photonic Sensors and Detectors Sales by Country (2020-2025) & (K Units)

Table 36. Americas Photonic Sensors and Detectors Sales Market Share by Country (2020-2025)

Table 37. Americas Photonic Sensors and Detectors Revenue by Country (2020-2025) & (\$ millions)

Table 38. Americas Photonic Sensors and Detectors Sales by Type (2020-2025) & (K Units)

Table 39. Americas Photonic Sensors and Detectors Sales by Application (2020-2025) & (K Units)

Table 40. APAC Photonic Sensors and Detectors Sales by Region (2020-2025) & (K Units)

Table 41. APAC Photonic Sensors and Detectors Sales Market Share by Region (2020-2025)

Table 42. APAC Photonic Sensors and Detectors Revenue by Region (2020-2025) & (\$ millions)

Table 43. APAC Photonic Sensors and Detectors Sales by Type (2020-2025) & (K Units)

Table 44. APAC Photonic Sensors and Detectors Sales by Application (2020-2025) & (K Units)

Table 45. Europe Photonic Sensors and Detectors Sales by Country (2020-2025) & (K Units)

Table 46. Europe Photonic Sensors and Detectors Revenue by Country (2020-2025) & (\$ millions)

Table 47. Europe Photonic Sensors and Detectors Sales by Type (2020-2025) & (K Units)

Table 48. Europe Photonic Sensors and Detectors Sales by Application (2020-2025) & (K Units)

Table 49. Middle East & Africa Photonic Sensors and Detectors Sales by Country (2020-2025) & (K Units)

Table 50. Middle East & Africa Photonic Sensors and Detectors Revenue Market Share by Country (2020-2025)

Table 51. Middle East & Africa Photonic Sensors and Detectors Sales by Type (2020-2025) & (K Units)

Table 52. Middle East & Africa Photonic Sensors and Detectors Sales by Application (2020-2025) & (K Units)

Table 53. Key Market Drivers & Growth Opportunities of Photonic Sensors and Detectors

Table 54. Key Market Challenges & Risks of Photonic Sensors and Detectors

Table 55. Key Industry Trends of Photonic Sensors and Detectors

Table 56. Photonic Sensors and Detectors Raw Material

Table 57. Key Suppliers of Raw Materials

Table 58. Photonic Sensors and Detectors Distributors List

Table 59. Photonic Sensors and Detectors Customer List

Table 60. Global Photonic Sensors and Detectors Sales Forecast by Region (2026-2031) & (K Units)

Table 61. Global Photonic Sensors and Detectors Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 62. Americas Photonic Sensors and Detectors Sales Forecast by Country (2026-2031) & (K Units)

Table 63. Americas Photonic Sensors and Detectors Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 64. APAC Photonic Sensors and Detectors Sales Forecast by Region

(2026-2031) & (K Units)

Table 65. APAC Photonic Sensors and Detectors Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 66. Europe Photonic Sensors and Detectors Sales Forecast by Country (2026-2031) & (K Units)

Table 67. Europe Photonic Sensors and Detectors Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Middle East & Africa Photonic Sensors and Detectors Sales Forecast by Country (2026-2031) & (K Units)

Table 69. Middle East & Africa Photonic Sensors and Detectors Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 70. Global Photonic Sensors and Detectors Sales Forecast by Type (2026-2031) & (K Units)

Table 71. Global Photonic Sensors and Detectors Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 72. Global Photonic Sensors and Detectors Sales Forecast by Application (2026-2031) & (K Units)

Table 73. Global Photonic Sensors and Detectors Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 74. Hamamatsu Photonics Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 75. Hamamatsu Photonics Photonic Sensors and Detectors Product Portfolios and Specifications

Table 76. Hamamatsu Photonics Photonic Sensors and Detectors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Hamamatsu Photonics Main Business

Table 78. Hamamatsu Photonics Latest Developments

Table 79. Omron Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 80. Omron Photonic Sensors and Detectors Product Portfolios and Specifications

Table 81. Omron Photonic Sensors and Detectors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 82. Omron Main Business

Table 83. Omron Latest Developments

Table 84. ON Semiconductor Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 85. ON Semiconductor Photonic Sensors and Detectors Product Portfolios and Specifications

Table 86. ON Semiconductor Photonic Sensors and Detectors Sales (K Units),

Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 87. ON Semiconductor Main Business

Table 88. ON Semiconductor Latest Developments

Table 89. Samsung Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 90. Samsung Photonic Sensors and Detectors Product Portfolios and Specifications

Table 91. Samsung Photonic Sensors and Detectors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 92. Samsung Main Business

Table 93. Samsung Latest Developments

Table 94. Sony Corporation Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 95. Sony Corporation Photonic Sensors and Detectors Product Portfolios and Specifications

Table 96. Sony Corporation Photonic Sensors and Detectors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 97. Sony Corporation Main Business

Table 98. Sony Corporation Latest Developments

Table 99. Keyence Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 100. Keyence Photonic Sensors and Detectors Product Portfolios and Specifications

Table 101. Keyence Photonic Sensors and Detectors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 102. Keyence Main Business

Table 103. Keyence Latest Developments

Table 104. Pepperl+Fuchs Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 105. Pepperl+Fuchs Photonic Sensors and Detectors Product Portfolios and Specifications

Table 106. Pepperl+Fuchs Photonic Sensors and Detectors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 107. Pepperl+Fuchs Main Business

Table 108. Pepperl+Fuchs Latest Developments

Table 109. Prime Photonics Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 110. Prime Photonics Photonic Sensors and Detectors Product Portfolios and Specifications

Table 111. Prime Photonics Photonic Sensors and Detectors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 112. Prime Photonics Main Business

Table 113. Prime Photonics Latest Developments

Table 114. Banpil Photonics Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 115. Banpil Photonics Photonic Sensors and Detectors Product Portfolios and Specifications

Table 116. Banpil Photonics Photonic Sensors and Detectors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 117. Banpil Photonics Main Business

Table 118. Banpil Photonics Latest Developments

Table 119. NP Photonics Basic Information, Photonic Sensors and Detectors Manufacturing Base, Sales Area and Its Competitors

Table 120. NP Photonics Photonic Sensors and Detectors Product Portfolios and Specifications

Table 121. NP Photonics Photonic Sensors and Detectors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 122. NP Photonics Main Business

Table 123. NP Photonics Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Photonic Sensors and Detectors
- Figure 2. Photonic Sensors and Detectors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Photonic Sensors and Detectors Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Photonic Sensors and Detectors Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Photonic Sensors and Detectors Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Photonic Sensors and Detectors Sales Market Share by Country/Region (2024)
- Figure 10. Photonic Sensors and Detectors Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Fibre Optic Sensors
- Figure 12. Product Picture of Biophotonic Sensors
- Figure 13. Product Picture of Image Sensors
- Figure 14. Product Picture of Others
- Figure 15. Global Photonic Sensors and Detectors Sales Market Share by Type in 2025
- Figure 16. Global Photonic Sensors and Detectors Revenue Market Share by Type (2020-2025)
- Figure 17. Photonic Sensors and Detectors Consumed in Defence & Security
- Figure 18. Global Photonic Sensors and Detectors Market: Defence & Security (2020-2025) & (K Units)
- Figure 19. Photonic Sensors and Detectors Consumed in Medical & Healthcare
- Figure 20. Global Photonic Sensors and Detectors Market: Medical & Healthcare (2020-2025) & (K Units)
- Figure 21. Photonic Sensors and Detectors Consumed in Chemicals & Petrochemicals
- Figure 22. Global Photonic Sensors and Detectors Market: Chemicals & Petrochemicals (2020-2025) & (K Units)
- Figure 23. Photonic Sensors and Detectors Consumed in Consumer Electronics
- Figure 24. Global Photonic Sensors and Detectors Market: Consumer Electronics (2020-2025) & (K Units)
- Figure 25. Photonic Sensors and Detectors Consumed in Others

Figure 26. Global Photonic Sensors and Detectors Market: Others (2020-2025) & (K Units)

Figure 27. Global Photonic Sensors and Detectors Sale Market Share by Application (2024)

Figure 28. Global Photonic Sensors and Detectors Revenue Market Share by Application in 2025

Figure 29. Photonic Sensors and Detectors Sales by Company in 2025 (K Units)

Figure 30. Global Photonic Sensors and Detectors Sales Market Share by Company in 2025

Figure 31. Photonic Sensors and Detectors Revenue by Company in 2025 (\$ millions)

Figure 32. Global Photonic Sensors and Detectors Revenue Market Share by Company in 2025

Figure 33. Global Photonic Sensors and Detectors Sales Market Share by Geographic Region (2020-2025)

Figure 34. Global Photonic Sensors and Detectors Revenue Market Share by Geographic Region in 2025

Figure 35. Americas Photonic Sensors and Detectors Sales 2020-2025 (K Units)

Figure 36. Americas Photonic Sensors and Detectors Revenue 2020-2025 (\$ millions)

Figure 37. APAC Photonic Sensors and Detectors Sales 2020-2025 (K Units)

Figure 38. APAC Photonic Sensors and Detectors Revenue 2020-2025 (\$ millions)

Figure 39. Europe Photonic Sensors and Detectors Sales 2020-2025 (K Units)

Figure 40. Europe Photonic Sensors and Detectors Revenue 2020-2025 (\$ millions)

Figure 41. Middle East & Africa Photonic Sensors and Detectors Sales 2020-2025 (K Units)

Figure 42. Middle East & Africa Photonic Sensors and Detectors Revenue 2020-2025 (\$ millions)

Figure 43. Americas Photonic Sensors and Detectors Sales Market Share by Country in 2025

Figure 44. Americas Photonic Sensors and Detectors Revenue Market Share by Country (2020-2025)

Figure 45. Americas Photonic Sensors and Detectors Sales Market Share by Type (2020-2025)

Figure 46. Americas Photonic Sensors and Detectors Sales Market Share by Application (2020-2025)

Figure 47. United States Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 48. Canada Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 49. Mexico Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$

millions)

Figure 50. Brazil Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 51. APAC Photonic Sensors and Detectors Sales Market Share by Region in 2025

Figure 52. APAC Photonic Sensors and Detectors Revenue Market Share by Region (2020-2025)

Figure 53. APAC Photonic Sensors and Detectors Sales Market Share by Type (2020-2025)

Figure 54. APAC Photonic Sensors and Detectors Sales Market Share by Application (2020-2025)

Figure 55. China Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 56. Japan Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 57. South Korea Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 58. Southeast Asia Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 59. India Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 60. Australia Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 61. China Taiwan Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 62. Europe Photonic Sensors and Detectors Sales Market Share by Country in 2025

Figure 63. Europe Photonic Sensors and Detectors Revenue Market Share by Country (2020-2025)

Figure 64. Europe Photonic Sensors and Detectors Sales Market Share by Type (2020-2025)

Figure 65. Europe Photonic Sensors and Detectors Sales Market Share by Application (2020-2025)

Figure 66. Germany Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 67. France Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 68. UK Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 69. Italy Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$

millions)

Figure 70. Russia Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 71. Middle East & Africa Photonic Sensors and Detectors Sales Market Share by Country (2020-2025)

Figure 72. Middle East & Africa Photonic Sensors and Detectors Sales Market Share by Type (2020-2025)

Figure 73. Middle East & Africa Photonic Sensors and Detectors Sales Market Share by Application (2020-2025)

Figure 74. Egypt Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 75. South Africa Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 76. Israel Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 77. Turkey Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 78. GCC Countries Photonic Sensors and Detectors Revenue Growth 2020-2025 (\$ millions)

Figure 79. Manufacturing Cost Structure Analysis of Photonic Sensors and Detectors in 2025

Figure 80. Manufacturing Process Analysis of Photonic Sensors and Detectors

Figure 81. Industry Chain Structure of Photonic Sensors and Detectors

Figure 82. Channels of Distribution

Figure 83. Global Photonic Sensors and Detectors Sales Market Forecast by Region (2026-2031)

Figure 84. Global Photonic Sensors and Detectors Revenue Market Share Forecast by Region (2026-2031)

Figure 85. Global Photonic Sensors and Detectors Sales Market Share Forecast by Type (2026-2031)

Figure 86. Global Photonic Sensors and Detectors Revenue Market Share Forecast by Type (2026-2031)

Figure 87. Global Photonic Sensors and Detectors Sales Market Share Forecast by Application (2026-2031)

Figure 88. Global Photonic Sensors and Detectors Revenue Market Share Forecast by Application (2026-2031)

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