

Global Silicon-Based Photodetector Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Silicon-Based Photodetector market size was valued at US\$ 134 million in 2023. With growing demand in downstream market, the Silicon-Based Photodetector is forecast to a readjusted size of US\$ 217.4 million by 2030 with a CAGR of 7.2% during review period.

The research report highlights the growth potential of the global Silicon-Based Photodetector market. Silicon-Based Photodetector are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Silicon-Based Photodetector. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Silicon-Based Photodetector market.

Silicon-based photodetectors refer to silicon drift detectors (SDD) and silicon photomultipliers (SiPM) in this report.

Global Silicon-Based Photodetector key players include Hamamatsu, ON Semiconductor, Broadcom, First Sensor, AdvanSiD, etc. Global top five manufacturers hold a share about 75%.

North America is the largest market, with a share about 40%, followed by China, and Europe, both have a share over 35 percent. In terms of product, Silicon Photomultiplier is the largest segment, with a share over 80%. And in terms of application, the largest

application is Aerospace and Defense, followed by Medical and Biotechnology, Industrial, etc.

Key Features:

The report on Silicon-Based Photodetector market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Silicon-Based Photodetector market. It may include historical data, market segmentation by Type (e.g., Silicon Drift Detector (SDD), Silicon Photomultiplier (SiPM)), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Silicon-Based Photodetector market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Silicon-Based Photodetector market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Silicon-Based Photodetector industry. This include advancements in Silicon-Based Photodetector technology, Silicon-Based Photodetector new entrants, Silicon-Based Photodetector new investment, and other innovations that are shaping the future of Silicon-Based Photodetector.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Silicon-Based Photodetector market. It includes factors influencing customer ' purchasing decisions, preferences for Silicon-Based Photodetector product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Silicon-Based Photodetector market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Silicon-Based Photodetector market. The report

also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Silicon-Based Photodetector market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Silicon-Based Photodetector industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Silicon-Based Photodetector market.

Market Segmentation:

Silicon-Based Photodetector market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Silicon Drift Detector (SDD)

Silicon Photomultiplier (SiPM)

Segmentation by application

Aerospace and Defense

Medical and Biotechnology

Industrial

Physics Research

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 analyzing the company's coverage, product portfolio, its market penetration.

Hamamatsu

ON Semiconductor

Broadcom

First Sensor

KETEK GmbH

Mirion Technologies

PNDetector

AdvanSiD

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon-Based Photodetector market?

What factors are driving Silicon-Based Photodetector market growth, globally and by region?

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

How do Silicon-Based Photodetector market opportunities vary by end market size?

How does Silicon-Based Photodetector break out type, 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 Silicon-Based Photodetector Annual Sales 2019-2030

- 2.1.2 World Current & Future Analysis for Silicon-Based Photodetector by Geographic Region, 2019, 2023 & 2030

- 2.1.3 World Current & Future Analysis for Silicon-Based Photodetector by Country/Region, 2019, 2023 & 2030

2.2 Silicon-Based Photodetector Segment by Type

- 2.2.1 Silicon Drift Detector (SDD)

- 2.2.2 Silicon Photomultiplier (SiPM)

2.3 Silicon-Based Photodetector Sales by Type

- 2.3.1 Global Silicon-Based Photodetector Sales Market Share by Type (2019-2024)

- 2.3.2 Global Silicon-Based Photodetector Revenue and Market Share by Type (2019-2024)

- 2.3.3 Global Silicon-Based Photodetector Sale Price by Type (2019-2024)

2.4 Silicon-Based Photodetector Segment by Application

- 2.4.1 Aerospace and Defense

- 2.4.2 Medical and Biotechnology

- 2.4.3 Industrial

- 2.4.4 Physics Research

- 2.4.5 Others

2.5 Silicon-Based Photodetector Sales by Application

- 2.5.1 Global Silicon-Based Photodetector Sale Market Share by Application (2019-2024)

- 2.5.2 Global Silicon-Based Photodetector Revenue and Market Share by Application

(2019-2024)

2.5.3 Global Silicon-Based Photodetector Sale Price by Application (2019-2024)

3 GLOBAL SILICON-BASED PHOTODETECTOR BY COMPANY

3.1 Global Silicon-Based Photodetector Breakdown Data by Company

3.1.1 Global Silicon-Based Photodetector Annual Sales by Company (2019-2024)

3.1.2 Global Silicon-Based Photodetector Sales Market Share by Company

(2019-2024)

3.2 Global Silicon-Based Photodetector Annual Revenue by Company (2019-2024)

3.2.1 Global Silicon-Based Photodetector Revenue by Company (2019-2024)

3.2.2 Global Silicon-Based Photodetector Revenue Market Share by Company

(2019-2024)

3.3 Global Silicon-Based Photodetector Sale Price by Company

3.4 Key Manufacturers Silicon-Based Photodetector Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Silicon-Based Photodetector Product Location Distribution

3.4.2 Players Silicon-Based Photodetector Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR SILICON-BASED PHOTODETECTOR BY GEOGRAPHIC REGION

4.1 World Historic Silicon-Based Photodetector Market Size by Geographic Region (2019-2024)

4.1.1 Global Silicon-Based Photodetector Annual Sales by Geographic Region

(2019-2024)

4.1.2 Global Silicon-Based Photodetector Annual Revenue by Geographic Region

(2019-2024)

4.2 World Historic Silicon-Based Photodetector Market Size by Country/Region (2019-2024)

4.2.1 Global Silicon-Based Photodetector Annual Sales by Country/Region

(2019-2024)

4.2.2 Global Silicon-Based Photodetector Annual Revenue by Country/Region

(2019-2024)

- 4.3 Americas Silicon-Based Photodetector Sales Growth
- 4.4 APAC Silicon-Based Photodetector Sales Growth
- 4.5 Europe Silicon-Based Photodetector Sales Growth
- 4.6 Middle East & Africa Silicon-Based Photodetector Sales Growth

5 AMERICAS

- 5.1 Americas Silicon-Based Photodetector Sales by Country
 - 5.1.1 Americas Silicon-Based Photodetector Sales by Country (2019-2024)
 - 5.1.2 Americas Silicon-Based Photodetector Revenue by Country (2019-2024)
- 5.2 Americas Silicon-Based Photodetector Sales by Type
- 5.3 Americas Silicon-Based Photodetector Sales by Application
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Silicon-Based Photodetector Sales by Region
 - 6.1.1 APAC Silicon-Based Photodetector Sales by Region (2019-2024)
 - 6.1.2 APAC Silicon-Based Photodetector Revenue by Region (2019-2024)
- 6.2 APAC Silicon-Based Photodetector Sales by Type
- 6.3 APAC Silicon-Based Photodetector Sales by Application
- 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 Silicon-Based Photodetector by Country
 - 7.1.1 Europe Silicon-Based Photodetector Sales by Country (2019-2024)
 - 7.1.2 Europe Silicon-Based Photodetector Revenue by Country (2019-2024)
- 7.2 Europe Silicon-Based Photodetector Sales by Type
- 7.3 Europe Silicon-Based Photodetector Sales by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Silicon-Based Photodetector by Country

8.1.1 Middle East & Africa Silicon-Based Photodetector Sales by Country (2019-2024)

8.1.2 Middle East & Africa Silicon-Based Photodetector Revenue by Country (2019-2024)

8.2 Middle East & Africa Silicon-Based Photodetector Sales by Type

8.3 Middle East & Africa Silicon-Based Photodetector Sales by Application

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 Silicon-Based Photodetector

10.3 Manufacturing Process Analysis of Silicon-Based Photodetector

10.4 Industry Chain Structure of Silicon-Based Photodetector

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Silicon-Based Photodetector Distributors

11.3 Silicon-Based Photodetector Customer

12 WORLD FORECAST REVIEW FOR SILICON-BASED PHOTODETECTOR BY GEOGRAPHIC REGION

12.1 Global Silicon-Based Photodetector Market Size Forecast by Region

12.1.1 Global Silicon-Based Photodetector Forecast by Region (2025-2030)

12.1.2 Global Silicon-Based Photodetector Annual Revenue Forecast by Region (2025-2030)

12.2 Americas Forecast by Country

12.3 APAC Forecast by Region

12.4 Europe Forecast by Country

12.5 Middle East & Africa Forecast by Country

12.6 Global Silicon-Based Photodetector Forecast by Type

12.7 Global Silicon-Based Photodetector Forecast by Application

13 KEY PLAYERS ANALYSIS

13.1 Hamamatsu

13.1.1 Hamamatsu Company Information

13.1.2 Hamamatsu Silicon-Based Photodetector Product Portfolios and Specifications

13.1.3 Hamamatsu Silicon-Based Photodetector Sales, Revenue, Price and Gross Margin (2019-2024)

13.1.4 Hamamatsu Main Business Overview

13.1.5 Hamamatsu Latest Developments

13.2 ON Semiconductor

13.2.1 ON Semiconductor Company Information

13.2.2 ON Semiconductor Silicon-Based Photodetector Product Portfolios and Specifications

13.2.3 ON Semiconductor Silicon-Based Photodetector Sales, Revenue, Price and Gross Margin (2019-2024)

13.2.4 ON Semiconductor Main Business Overview

13.2.5 ON Semiconductor Latest Developments

13.3 Broadcom

13.3.1 Broadcom Company Information

13.3.2 Broadcom Silicon-Based Photodetector Product Portfolios and Specifications

13.3.3 Broadcom Silicon-Based Photodetector Sales, Revenue, Price and Gross Margin (2019-2024)

13.3.4 Broadcom Main Business Overview

- 13.3.5 Broadcom Latest Developments
- 13.4 First Sensor
 - 13.4.1 First Sensor Company Information
 - 13.4.2 First Sensor Silicon-Based Photodetector Product Portfolios and Specifications
 - 13.4.3 First Sensor Silicon-Based Photodetector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.4.4 First Sensor Main Business Overview
 - 13.4.5 First Sensor Latest Developments
- 13.5 KETEK GmbH
 - 13.5.1 KETEK GmbH Company Information
 - 13.5.2 KETEK GmbH Silicon-Based Photodetector Product Portfolios and Specifications
 - 13.5.3 KETEK GmbH Silicon-Based Photodetector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.5.4 KETEK GmbH Main Business Overview
 - 13.5.5 KETEK GmbH Latest Developments
- 13.6 Mirion Technologies
 - 13.6.1 Mirion Technologies Company Information
 - 13.6.2 Mirion Technologies Silicon-Based Photodetector Product Portfolios and Specifications
 - 13.6.3 Mirion Technologies Silicon-Based Photodetector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.6.4 Mirion Technologies Main Business Overview
 - 13.6.5 Mirion Technologies Latest Developments
- 13.7 PNDetector
 - 13.7.1 PNDetector Company Information
 - 13.7.2 PNDetector Silicon-Based Photodetector Product Portfolios and Specifications
 - 13.7.3 PNDetector Silicon-Based Photodetector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.7.4 PNDetector Main Business Overview
 - 13.7.5 PNDetector Latest Developments
- 13.8 AdvanSiD
 - 13.8.1 AdvanSiD Company Information
 - 13.8.2 AdvanSiD Silicon-Based Photodetector Product Portfolios and Specifications
 - 13.8.3 AdvanSiD Silicon-Based Photodetector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.8.4 AdvanSiD Main Business Overview
 - 13.8.5 AdvanSiD Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Silicon-Based Photodetector Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)
- Table 2. Silicon-Based Photodetector Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)
- Table 3. Major Players of Silicon Drift Detector (SDD)
- Table 4. Major Players of Silicon Photomultiplier (SiPM)
- Table 5. Global Silicon-Based Photodetector Sales by Type (2019-2024) & (K Units)
- Table 6. Global Silicon-Based Photodetector Sales Market Share by Type (2019-2024)
- Table 7. Global Silicon-Based Photodetector Revenue by Type (2019-2024) & (\$ million)
- Table 8. Global Silicon-Based Photodetector Revenue Market Share by Type (2019-2024)
- Table 9. Global Silicon-Based Photodetector Sale Price by Type (2019-2024) & (US\$/Unit)
- Table 10. Global Silicon-Based Photodetector Sales by Application (2019-2024) & (K Units)
- Table 11. Global Silicon-Based Photodetector Sales Market Share by Application (2019-2024)
- Table 12. Global Silicon-Based Photodetector Revenue by Application (2019-2024)
- Table 13. Global Silicon-Based Photodetector Revenue Market Share by Application (2019-2024)
- Table 14. Global Silicon-Based Photodetector Sale Price by Application (2019-2024) & (US\$/Unit)
- Table 15. Global Silicon-Based Photodetector Sales by Company (2019-2024) & (K Units)
- Table 16. Global Silicon-Based Photodetector Sales Market Share by Company (2019-2024)
- Table 17. Global Silicon-Based Photodetector Revenue by Company (2019-2024) (\$ Millions)
- Table 18. Global Silicon-Based Photodetector Revenue Market Share by Company (2019-2024)
- Table 19. Global Silicon-Based Photodetector Sale Price by Company (2019-2024) & (US\$/Unit)
- Table 20. Key Manufacturers Silicon-Based Photodetector Producing Area Distribution and Sales Area

- Table 21. Players Silicon-Based Photodetector Products Offered
- Table 22. Silicon-Based Photodetector Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)
- Table 23. New Products and Potential Entrants
- Table 24. Mergers & Acquisitions, Expansion
- Table 25. Global Silicon-Based Photodetector Sales by Geographic Region (2019-2024) & (K Units)
- Table 26. Global Silicon-Based Photodetector Sales Market Share Geographic Region (2019-2024)
- Table 27. Global Silicon-Based Photodetector Revenue by Geographic Region (2019-2024) & (\$ millions)
- Table 28. Global Silicon-Based Photodetector Revenue Market Share by Geographic Region (2019-2024)
- Table 29. Global Silicon-Based Photodetector Sales by Country/Region (2019-2024) & (K Units)
- Table 30. Global Silicon-Based Photodetector Sales Market Share by Country/Region (2019-2024)
- Table 31. Global Silicon-Based Photodetector Revenue by Country/Region (2019-2024) & (\$ millions)
- Table 32. Global Silicon-Based Photodetector Revenue Market Share by Country/Region (2019-2024)
- Table 33. Americas Silicon-Based Photodetector Sales by Country (2019-2024) & (K Units)
- Table 34. Americas Silicon-Based Photodetector Sales Market Share by Country (2019-2024)
- Table 35. Americas Silicon-Based Photodetector Revenue by Country (2019-2024) & (\$ Millions)
- Table 36. Americas Silicon-Based Photodetector Revenue Market Share by Country (2019-2024)
- Table 37. Americas Silicon-Based Photodetector Sales by Type (2019-2024) & (K Units)
- Table 38. Americas Silicon-Based Photodetector Sales by Application (2019-2024) & (K Units)
- Table 39. APAC Silicon-Based Photodetector Sales by Region (2019-2024) & (K Units)
- Table 40. APAC Silicon-Based Photodetector Sales Market Share by Region (2019-2024)
- Table 41. APAC Silicon-Based Photodetector Revenue by Region (2019-2024) & (\$ Millions)
- Table 42. APAC Silicon-Based Photodetector Revenue Market Share by Region (2019-2024)

Table 43. APAC Silicon-Based Photodetector Sales by Type (2019-2024) & (K Units)

Table 44. APAC Silicon-Based Photodetector Sales by Application (2019-2024) & (K Units)

Table 45. Europe Silicon-Based Photodetector Sales by Country (2019-2024) & (K Units)

Table 46. Europe Silicon-Based Photodetector Sales Market Share by Country (2019-2024)

Table 47. Europe Silicon-Based Photodetector Revenue by Country (2019-2024) & (\$ Millions)

Table 48. Europe Silicon-Based Photodetector Revenue Market Share by Country (2019-2024)

Table 49. Europe Silicon-Based Photodetector Sales by Type (2019-2024) & (K Units)

Table 50. Europe Silicon-Based Photodetector Sales by Application (2019-2024) & (K Units)

Table 51. Middle East & Africa Silicon-Based Photodetector Sales by Country (2019-2024) & (K Units)

Table 52. Middle East & Africa Silicon-Based Photodetector Sales Market Share by Country (2019-2024)

Table 53. Middle East & Africa Silicon-Based Photodetector Revenue by Country (2019-2024) & (\$ Millions)

Table 54. Middle East & Africa Silicon-Based Photodetector Revenue Market Share by Country (2019-2024)

Table 55. Middle East & Africa Silicon-Based Photodetector Sales by Type (2019-2024) & (K Units)

Table 56. Middle East & Africa Silicon-Based Photodetector Sales by Application (2019-2024) & (K Units)

Table 57. Key Market Drivers & Growth Opportunities of Silicon-Based Photodetector

Table 58. Key Market Challenges & Risks of Silicon-Based Photodetector

Table 59. Key Industry Trends of Silicon-Based Photodetector

Table 60. Silicon-Based Photodetector Raw Material

Table 61. Key Suppliers of Raw Materials

Table 62. Silicon-Based Photodetector Distributors List

Table 63. Silicon-Based Photodetector Customer List

Table 64. Global Silicon-Based Photodetector Sales Forecast by Region (2025-2030) & (K Units)

Table 65. Global Silicon-Based Photodetector Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 66. Americas Silicon-Based Photodetector Sales Forecast by Country (2025-2030) & (K Units)

Table 67. Americas Silicon-Based Photodetector Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 68. APAC Silicon-Based Photodetector Sales Forecast by Region (2025-2030) & (K Units)

Table 69. APAC Silicon-Based Photodetector Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 70. Europe Silicon-Based Photodetector Sales Forecast by Country (2025-2030) & (K Units)

Table 71. Europe Silicon-Based Photodetector Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 72. Middle East & Africa Silicon-Based Photodetector Sales Forecast by Country (2025-2030) & (K Units)

Table 73. Middle East & Africa Silicon-Based Photodetector Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 74. Global Silicon-Based Photodetector Sales Forecast by Type (2025-2030) & (K Units)

Table 75. Global Silicon-Based Photodetector Revenue Forecast by Type (2025-2030) & (\$ Millions)

Table 76. Global Silicon-Based Photodetector Sales Forecast by Application (2025-2030) & (K Units)

Table 77. Global Silicon-Based Photodetector Revenue Forecast by Application (2025-2030) & (\$ Millions)

Table 78. Hamamatsu Basic Information, Silicon-Based Photodetector Manufacturing Base, Sales Area and Its Competitors

Table 79. Hamamatsu Silicon-Based Photodetector Product Portfolios and Specifications

Table 80. Hamamatsu Silicon-Based Photodetector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 81. Hamamatsu Main Business

Table 82. Hamamatsu Latest Developments

Table 83. ON Semiconductor Basic Information, Silicon-Based Photodetector Manufacturing Base, Sales Area and Its Competitors

Table 84. ON Semiconductor Silicon-Based Photodetector Product Portfolios and Specifications

Table 85. ON Semiconductor Silicon-Based Photodetector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 86. ON Semiconductor Main Business

Table 87. ON Semiconductor Latest Developments

Table 88. Broadcom Basic Information, Silicon-Based Photodetector Manufacturing

Base, Sales Area and Its Competitors

Table 89. Broadcom Silicon-Based Photodetector Product Portfolios and Specifications

Table 90. Broadcom Silicon-Based Photodetector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 91. Broadcom Main Business

Table 92. Broadcom Latest Developments

Table 93. First Sensor Basic Information, Silicon-Based Photodetector Manufacturing Base, Sales Area and Its Competitors

Table 94. First Sensor Silicon-Based Photodetector Product Portfolios and Specifications

Table 95. First Sensor Silicon-Based Photodetector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 96. First Sensor Main Business

Table 97. First Sensor Latest Developments

Table 98. KETEK GmbH Basic Information, Silicon-Based Photodetector Manufacturing Base, Sales Area and Its Competitors

Table 99. KETEK GmbH Silicon-Based Photodetector Product Portfolios and Specifications

Table 100. KETEK GmbH Silicon-Based Photodetector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 101. KETEK GmbH Main Business

Table 102. KETEK GmbH Latest Developments

Table 103. Mirion Technologies Basic Information, Silicon-Based Photodetector Manufacturing Base, Sales Area and Its Competitors

Table 104. Mirion Technologies Silicon-Based Photodetector Product Portfolios and Specifications

Table 105. Mirion Technologies Silicon-Based Photodetector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 106. Mirion Technologies Main Business

Table 107. Mirion Technologies Latest Developments

Table 108. PNDetector Basic Information, Silicon-Based Photodetector Manufacturing Base, Sales Area and Its Competitors

Table 109. PNDetector Silicon-Based Photodetector Product Portfolios and Specifications

Table 110. PNDetector Silicon-Based Photodetector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 111. PNDetector Main Business

Table 112. PNDetector Latest Developments

Table 113. AdvanSiD Basic Information, Silicon-Based Photodetector Manufacturing

Base, Sales Area and Its Competitors

Table 114. AdvanSiD Silicon-Based Photodetector Product Portfolios and Specifications

Table 115. AdvanSiD Silicon-Based Photodetector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 116. AdvanSiD Main Business

Table 117. AdvanSiD Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Silicon-Based Photodetector
- Figure 2. Silicon-Based Photodetector Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Silicon-Based Photodetector Sales Growth Rate 2019-2030 (K Units)
- Figure 7. Global Silicon-Based Photodetector Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. Silicon-Based Photodetector Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of Silicon Drift Detector (SDD)
- Figure 10. Product Picture of Silicon Photomultiplier (SiPM)
- Figure 11. Global Silicon-Based Photodetector Sales Market Share by Type in 2023
- Figure 12. Global Silicon-Based Photodetector Revenue Market Share by Type (2019-2024)
- Figure 13. Silicon-Based Photodetector Consumed in Aerospace and Defense
- Figure 14. Global Silicon-Based Photodetector Market: Aerospace and Defense (2019-2024) & (K Units)
- Figure 15. Silicon-Based Photodetector Consumed in Medical and Biotechnology
- Figure 16. Global Silicon-Based Photodetector Market: Medical and Biotechnology (2019-2024) & (K Units)
- Figure 17. Silicon-Based Photodetector Consumed in Industrial
- Figure 18. Global Silicon-Based Photodetector Market: Industrial (2019-2024) & (K Units)
- Figure 19. Silicon-Based Photodetector Consumed in Physics Research
- Figure 20. Global Silicon-Based Photodetector Market: Physics Research (2019-2024) & (K Units)
- Figure 21. Silicon-Based Photodetector Consumed in Others
- Figure 22. Global Silicon-Based Photodetector Market: Others (2019-2024) & (K Units)
- Figure 23. Global Silicon-Based Photodetector Sales Market Share by Application (2023)
- Figure 24. Global Silicon-Based Photodetector Revenue Market Share by Application in 2023
- Figure 25. Silicon-Based Photodetector Sales Market by Company in 2023 (K Units)
- Figure 26. Global Silicon-Based Photodetector Sales Market Share by Company in

2023

Figure 27. Silicon-Based Photodetector Revenue Market by Company in 2023 (\$ Million)

Figure 28. Global Silicon-Based Photodetector Revenue Market Share by Company in 2023

Figure 29. Global Silicon-Based Photodetector Sales Market Share by Geographic Region (2019-2024)

Figure 30. Global Silicon-Based Photodetector Revenue Market Share by Geographic Region in 2023

Figure 31. Americas Silicon-Based Photodetector Sales 2019-2024 (K Units)

Figure 32. Americas Silicon-Based Photodetector Revenue 2019-2024 (\$ Millions)

Figure 33. APAC Silicon-Based Photodetector Sales 2019-2024 (K Units)

Figure 34. APAC Silicon-Based Photodetector Revenue 2019-2024 (\$ Millions)

Figure 35. Europe Silicon-Based Photodetector Sales 2019-2024 (K Units)

Figure 36. Europe Silicon-Based Photodetector Revenue 2019-2024 (\$ Millions)

Figure 37. Middle East & Africa Silicon-Based Photodetector Sales 2019-2024 (K Units)

Figure 38. Middle East & Africa Silicon-Based Photodetector Revenue 2019-2024 (\$ Millions)

Figure 39. Americas Silicon-Based Photodetector Sales Market Share by Country in 2023

Figure 40. Americas Silicon-Based Photodetector Revenue Market Share by Country in 2023

Figure 41. Americas Silicon-Based Photodetector Sales Market Share by Type (2019-2024)

Figure 42. Americas Silicon-Based Photodetector Sales Market Share by Application (2019-2024)

Figure 43. United States Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 44. Canada Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 45. Mexico Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 46. Brazil Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 47. APAC Silicon-Based Photodetector Sales Market Share by Region in 2023

Figure 48. APAC Silicon-Based Photodetector Revenue Market Share by Regions in 2023

Figure 49. APAC Silicon-Based Photodetector Sales Market Share by Type (2019-2024)

Figure 50. APAC Silicon-Based Photodetector Sales Market Share by Application (2019-2024)

Figure 51. China Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 52. Japan Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 53. South Korea Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 54. Southeast Asia Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 55. India Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 56. Australia Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 57. China Taiwan Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 58. Europe Silicon-Based Photodetector Sales Market Share by Country in 2023

Figure 59. Europe Silicon-Based Photodetector Revenue Market Share by Country in 2023

Figure 60. Europe Silicon-Based Photodetector Sales Market Share by Type (2019-2024)

Figure 61. Europe Silicon-Based Photodetector Sales Market Share by Application (2019-2024)

Figure 62. Germany Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 63. France Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 64. UK Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 65. Italy Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 66. Russia Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 67. Middle East & Africa Silicon-Based Photodetector Sales Market Share by Country in 2023

Figure 68. Middle East & Africa Silicon-Based Photodetector Revenue Market Share by Country in 2023

Figure 69. Middle East & Africa Silicon-Based Photodetector Sales Market Share by Type (2019-2024)

Figure 70. Middle East & Africa Silicon-Based Photodetector Sales Market Share by Application (2019-2024)

Figure 71. Egypt Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 72. South Africa Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 73. Israel Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 74. Turkey Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 75. GCC Country Silicon-Based Photodetector Revenue Growth 2019-2024 (\$ Millions)

Figure 76. Manufacturing Cost Structure Analysis of Silicon-Based Photodetector in 2023

Figure 77. Manufacturing Process Analysis of Silicon-Based Photodetector

Figure 78. Industry Chain Structure of Silicon-Based Photodetector

Figure 79. Channels of Distribution

Figure 80. Global Silicon-Based Photodetector Sales Market Forecast by Region (2025-2030)

Figure 81. Global Silicon-Based Photodetector Revenue Market Share Forecast by Region (2025-2030)

Figure 82. Global Silicon-Based Photodetector Sales Market Share Forecast by Type (2025-2030)

Figure 83. Global Silicon-Based Photodetector Revenue Market Share Forecast by Type (2025-2030)

Figure 84. Global Silicon-Based Photodetector Sales Market Share Forecast by Application (2025-2030)

Figure 85. Global Silicon-Based Photodetector Revenue Market Share Forecast by Application (2025-2030)

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