

Global SPAD Array Chips Market Growth 2026-2032

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Abstracts

The global SPAD Array Chips market size is predicted to grow from US\$ 205 million in 2025 to US\$ 582 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

SPAD array chips are semiconductor photodetector chips formed by integrating multiple Geiger-mode single-photon avalanche diode pixels into linear or area-array architectures, enabling photon-arrival detection, spatial information capture, and in many cases time-resolved measurement under ultra-low-light conditions. Compared with single-pixel SPAD devices, SPAD array chips are better suited to imaging, depth sensing, and high-throughput photon-counting tasks. Their typical architecture includes a SPAD pixel array, quenching and recharge circuitry, on-chip readout, time-to-digital conversion, and supporting micro-optics and advanced packaging. Current commercialization is concentrated mainly in Japan, Europe, North America, and China, with major applications in automotive and industrial LiDAR, 3D depth sensing, low-light imaging, biophotonics, optical tomography, and quantum measurement. Their competitiveness is mainly defined by photon detection efficiency, dark count rate, timing jitter, crosstalk suppression, array scale, fill factor, and system integration capability.

In 2025, global production of SPAD array chips reached approximately 28 million to 38 million units. Based on the commercial product mix, mainstream FOB prices were generally in the range of USD 5.0 to USD 7.2 per unit, with high-volume industrial and consumer multizone ToF array devices typically priced below high-resolution automotive and premium imaging-oriented SPAD array chips.

SPAD array chips are moving from specialist scientific detectors and niche industrial components toward a foundational chip platform for intelligent sensing systems. Their strongest growth driver is not sensitivity alone, but the combination of single-photon-level detection, time resolution, and array-based spatial information on one chip, which

allows end systems to obtain more reliable distance, depth, and low-light data across more challenging illumination conditions and wider operating ranges. The most powerful commercial pull is currently coming from automotive and industrial LiDAR, 3D sensing in robotics and smart infrastructure, and emerging low-light monitoring and high-dynamic-range imaging systems. As Sony advances stacked SPAD depth sensors for automotive use, ST and ams OSRAM expand the application scope of multizone dToF devices, and Canon accelerates high-pixel SPAD sensor development, SPAD array chips are moving from narrow specialist components toward broader system-level adoption.

That expansion, however, is not without constraints. As array size and resolution continue to increase, issues such as dark count noise, crosstalk, afterpulsing, readout complexity, thermal management, packaging consistency, and ambient-light interference also become more significant. Customers are therefore placing greater emphasis on system-level coordination among the emitter, receiver, on-chip timing, algorithm compensation, and package design. Future competition is unlikely to be decided by chip specifications alone. It will increasingly shift toward platform capability, where success depends on balancing production yield, system performance, customer design-in, and application fit across high-value automotive, industrial, and advanced imaging markets.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SPAD Array Chips 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 SPAD Array Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of SPAD Array Chips market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SPAD Sensor Arrays

SPAD Imaging Arrays

SPAD Timing Arrays

Others

Segmentation by Spectral Band:

Visible Band

Near Infrared Band

Broad Spectrum Band

Segmentation by Array Format:

Area Arrays

Linear Arrays

Small Format Arrays

Segmentation by Packaging:

Surface Mount

Chip Scale Package

Others

Segmentation by Application:

Automotive

Consumer

Industrial & Medical

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.

Shenzhen Adaps Photonics Technology Co., Ltd.

Shenzhen Fortsense Technology Co., Ltd.

Suzhou Sophoton Technology Co., Ltd.

Shenzhen PolarisIC Microelectronics Co., Ltd.

Hangzhou Microparity Technology Co., Ltd.

Sony Semiconductor Solutions Corporation

STMicroelectronics N.V.

Hamamatsu Photonics K.K.

Canon Inc.

Micro Photon Devices S.r.l.

Pi Imaging Technology SA

SolidVue

Key Questions Addressed in this Report

What is the 10-year outlook for the global SPAD Array Chips market?

What factors are driving SPAD Array Chips market growth, globally and by region?

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

How do SPAD Array Chips market opportunities vary by end market size?

How does SPAD Array Chips 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 SPAD Array Chips Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for SPAD Array Chips by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for SPAD Array Chips by Country/Region, 2021, 2025 & 2032
- 2.2 SPAD Array Chips Segment by Type
 - 2.2.1 SPAD Sensor Arrays
 - 2.2.2 SPAD Imaging Arrays
 - 2.2.3 SPAD Timing Arrays
 - 2.2.4 Others
 - 2.2.5 SPAD Array Chips Sales by Type
 - 2.2.5.1 Global SPAD Array Chips Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global SPAD Array Chips Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global SPAD Array Chips Sale Price by Type (2021-2026)
- 2.3 SPAD Array Chips Segment by Spectral Band
 - 2.3.1 Visible Band
 - 2.3.2 Near Infrared Band
 - 2.3.3 Broad Spectrum Band
 - 2.3.4 SPAD Array Chips Sales by Spectral Band
 - 2.3.4.1 Global SPAD Array Chips Sales Market Share by Spectral Band (2021-2026)
 - 2.3.4.2 Global SPAD Array Chips Revenue and Market Share by Spectral Band (2021-2026)
 - 2.3.4.3 Global SPAD Array Chips Sale Price by Spectral Band (2021-2026)

2.4 SPAD Array Chips Segment by Array Format

2.4.1 Area Arrays

2.4.2 Linear Arrays

2.4.3 Small Format Arrays

2.4.4 SPAD Array Chips Sales by Array Format

2.4.4.1 Global SPAD Array Chips Sales Market Share by Array Format (2021-2026)

2.4.4.2 Global SPAD Array Chips Revenue and Market Share by Array Format (2021-2026)

2.4.4.3 Global SPAD Array Chips Sale Price by Array Format (2021-2026)

2.5 SPAD Array Chips Segment by Packaging

2.5.1 Surface Mount

2.5.2 Chip Scale Package

2.5.3 Others

2.5.4 SPAD Array Chips Sales by Packaging

2.5.4.1 Global SPAD Array Chips Sales Market Share by Packaging (2021-2026)

2.5.4.2 Global SPAD Array Chips Revenue and Market Share by Packaging (2021-2026)

2.5.4.3 Global SPAD Array Chips Sale Price by Packaging (2021-2026)

2.6 SPAD Array Chips Segment by Application

2.6.1 Automotive

2.6.2 Consumer

2.6.3 Industrial & Medical

2.6.4 Others

2.6.5 SPAD Array Chips Sales by Application

2.6.5.1 Global SPAD Array Chips Sale Market Share by Application (2021-2026)

2.6.5.2 Global SPAD Array Chips Revenue and Market Share by Application (2021-2026)

2.6.5.3 Global SPAD Array Chips Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global SPAD Array Chips Breakdown Data by Company

3.1.1 Global SPAD Array Chips Annual Sales by Company (2021-2026)

3.1.2 Global SPAD Array Chips Sales Market Share by Company (2021-2026)

3.2 Global SPAD Array Chips Annual Revenue by Company (2021-2026)

3.2.1 Global SPAD Array Chips Revenue by Company (2021-2026)

3.2.2 Global SPAD Array Chips Revenue Market Share by Company (2021-2026)

3.3 Global SPAD Array Chips Sale Price by Company

3.4 Key Manufacturers SPAD Array Chips Producing Area Distribution, Sales Area,

Product Type

- 3.4.1 Key Manufacturers SPAD Array Chips Product Location Distribution
- 3.4.2 Players SPAD Array Chips 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 SPAD ARRAY CHIPS BY GEOGRAPHIC REGION

- 4.1 World Historic SPAD Array Chips Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global SPAD Array Chips Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global SPAD Array Chips Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic SPAD Array Chips Market Size by Country/Region (2021-2026)
 - 4.2.1 Global SPAD Array Chips Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global SPAD Array Chips Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas SPAD Array Chips Sales Growth
- 4.4 APAC SPAD Array Chips Sales Growth
- 4.5 Europe SPAD Array Chips Sales Growth
- 4.6 Middle East & Africa SPAD Array Chips Sales Growth

5 AMERICAS

- 5.1 Americas SPAD Array Chips Sales by Country
 - 5.1.1 Americas SPAD Array Chips Sales by Country (2021-2026)
 - 5.1.2 Americas SPAD Array Chips Revenue by Country (2021-2026)
- 5.2 Americas SPAD Array Chips Sales by Type (2021-2026)
- 5.3 Americas SPAD Array Chips Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC SPAD Array Chips Sales by Region
 - 6.1.1 APAC SPAD Array Chips Sales by Region (2021-2026)

- 6.1.2 APAC SPAD Array Chips Revenue by Region (2021-2026)
- 6.2 APAC SPAD Array Chips Sales by Type (2021-2026)
- 6.3 APAC SPAD Array Chips 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 SPAD Array Chips by Country
 - 7.1.1 Europe SPAD Array Chips Sales by Country (2021-2026)
 - 7.1.2 Europe SPAD Array Chips Revenue by Country (2021-2026)
- 7.2 Europe SPAD Array Chips Sales by Type (2021-2026)
- 7.3 Europe SPAD Array Chips 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 SPAD Array Chips by Country
 - 8.1.1 Middle East & Africa SPAD Array Chips Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa SPAD Array Chips Revenue by Country (2021-2026)
- 8.2 Middle East & Africa SPAD Array Chips Sales by Type (2021-2026)
- 8.3 Middle East & Africa SPAD Array Chips 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 SPAD Array Chips

10.3 Manufacturing Process Analysis of SPAD Array Chips

10.4 Industry Chain Structure of SPAD Array Chips

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 SPAD Array Chips Distributors

11.3 SPAD Array Chips Customer

12 WORLD FORECAST REVIEW FOR SPAD ARRAY CHIPS BY GEOGRAPHIC REGION

12.1 Global SPAD Array Chips Market Size Forecast by Region

12.1.1 Global SPAD Array Chips Forecast by Region (2027-2032)

12.1.2 Global SPAD Array Chips 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 SPAD Array Chips Forecast by Type (2027-2032)

12.7 Global SPAD Array Chips Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Shenzhen Adaps Photonics Technology Co., Ltd.

13.1.1 Shenzhen Adaps Photonics Technology Co., Ltd. Company Information

13.1.2 Shenzhen Adaps Photonics Technology Co., Ltd. SPAD Array Chips Product Portfolios and Specifications

13.1.3 Shenzhen Adaps Photonics Technology Co., Ltd. SPAD Array Chips Sales,

Revenue, Price and Gross Margin (2021-2026)

13.1.4 Shenzhen Adaps Photonics Technology Co., Ltd. Main Business Overview

13.1.5 Shenzhen Adaps Photonics Technology Co., Ltd. Latest Developments

13.2 Shenzhen Fortsense Technology Co., Ltd.

13.2.1 Shenzhen Fortsense Technology Co., Ltd. Company Information

13.2.2 Shenzhen Fortsense Technology Co., Ltd. SPAD Array Chips Product

Portfolios and Specifications

13.2.3 Shenzhen Fortsense Technology Co., Ltd. SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Shenzhen Fortsense Technology Co., Ltd. Main Business Overview

13.2.5 Shenzhen Fortsense Technology Co., Ltd. Latest Developments

13.3 Suzhou Sophoton Technology Co., Ltd.

13.3.1 Suzhou Sophoton Technology Co., Ltd. Company Information

13.3.2 Suzhou Sophoton Technology Co., Ltd. SPAD Array Chips Product Portfolios and Specifications

13.3.3 Suzhou Sophoton Technology Co., Ltd. SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Suzhou Sophoton Technology Co., Ltd. Main Business Overview

13.3.5 Suzhou Sophoton Technology Co., Ltd. Latest Developments

13.4 Shenzhen PolarisIC Microelectronics Co., Ltd.

13.4.1 Shenzhen PolarisIC Microelectronics Co., Ltd. Company Information

13.4.2 Shenzhen PolarisIC Microelectronics Co., Ltd. SPAD Array Chips Product Portfolios and Specifications

13.4.3 Shenzhen PolarisIC Microelectronics Co., Ltd. SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Shenzhen PolarisIC Microelectronics Co., Ltd. Main Business Overview

13.4.5 Shenzhen PolarisIC Microelectronics Co., Ltd. Latest Developments

13.5 Hangzhou Microparity Technology Co., Ltd.

13.5.1 Hangzhou Microparity Technology Co., Ltd. Company Information

13.5.2 Hangzhou Microparity Technology Co., Ltd. SPAD Array Chips Product Portfolios and Specifications

13.5.3 Hangzhou Microparity Technology Co., Ltd. SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Hangzhou Microparity Technology Co., Ltd. Main Business Overview

13.5.5 Hangzhou Microparity Technology Co., Ltd. Latest Developments

13.6 Sony Semiconductor Solutions Corporation

13.6.1 Sony Semiconductor Solutions Corporation Company Information

13.6.2 Sony Semiconductor Solutions Corporation SPAD Array Chips Product Portfolios and Specifications

13.6.3 Sony Semiconductor Solutions Corporation SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Sony Semiconductor Solutions Corporation Main Business Overview

13.6.5 Sony Semiconductor Solutions Corporation Latest Developments

13.7 STMicroelectronics N.V.

13.7.1 STMicroelectronics N.V. Company Information

13.7.2 STMicroelectronics N.V. SPAD Array Chips Product Portfolios and Specifications

13.7.3 STMicroelectronics N.V. SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 STMicroelectronics N.V. Main Business Overview

13.7.5 STMicroelectronics N.V. Latest Developments

13.8 Hamamatsu Photonics K.K.

13.8.1 Hamamatsu Photonics K.K. Company Information

13.8.2 Hamamatsu Photonics K.K. SPAD Array Chips Product Portfolios and Specifications

13.8.3 Hamamatsu Photonics K.K. SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Hamamatsu Photonics K.K. Main Business Overview

13.8.5 Hamamatsu Photonics K.K. Latest Developments

13.9 Canon Inc.

13.9.1 Canon Inc. Company Information

13.9.2 Canon Inc. SPAD Array Chips Product Portfolios and Specifications

13.9.3 Canon Inc. SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Canon Inc. Main Business Overview

13.9.5 Canon Inc. Latest Developments

13.10 Micro Photon Devices S.r.l.

13.10.1 Micro Photon Devices S.r.l. Company Information

13.10.2 Micro Photon Devices S.r.l. SPAD Array Chips Product Portfolios and Specifications

13.10.3 Micro Photon Devices S.r.l. SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Micro Photon Devices S.r.l. Main Business Overview

13.10.5 Micro Photon Devices S.r.l. Latest Developments

13.11 Pi Imaging Technology SA

13.11.1 Pi Imaging Technology SA Company Information

13.11.2 Pi Imaging Technology SA SPAD Array Chips Product Portfolios and Specifications

13.11.3 Pi Imaging Technology SA SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Pi Imaging Technology SA Main Business Overview

13.11.5 Pi Imaging Technology SA Latest Developments

13.12 SolidVue

13.12.1 SolidVue Company Information

13.12.2 SolidVue SPAD Array Chips Product Portfolios and Specifications

13.12.3 SolidVue SPAD Array Chips Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 SolidVue Main Business Overview

13.12.5 SolidVue Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. SPAD Array Chips Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. SPAD Array Chips Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of SPAD Sensor Arrays
- Table 4. Major Players of SPAD Imaging Arrays
- Table 5. Major Players of SPAD Timing Arrays
- Table 6. Major Players of Others
- Table 7. Global SPAD Array Chips Sales by Type (2021-2026) & (Million Units)
- Table 8. Global SPAD Array Chips Sales Market Share by Type (2021-2026)
- Table 9. Global SPAD Array Chips Revenue by Type (2021-2026) & (\$ million)
- Table 10. Global SPAD Array Chips Revenue Market Share by Type (2021-2026)
- Table 11. Global SPAD Array Chips Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 12. Major Players of Visible Band
- Table 13. Major Players of Near Infrared Band
- Table 14. Major Players of Broad Spectrum Band
- Table 15. Global SPAD Array Chips Sales by Spectral Band (2021-2026) & (Million Units)
- Table 16. Global SPAD Array Chips Sales Market Share by Spectral Band (2021-2026)
- Table 17. Global SPAD Array Chips Revenue by Spectral Band (2021-2026) & (\$ million)
- Table 18. Global SPAD Array Chips Revenue Market Share by Spectral Band (2021-2026)
- Table 19. Global SPAD Array Chips Sale Price by Spectral Band (2021-2026) & (US\$/Unit)
- Table 20. Major Players of Area Arrays
- Table 21. Major Players of Linear Arrays
- Table 22. Major Players of Small Format Arrays
- Table 23. Global SPAD Array Chips Sales by Array Format (2021-2026) & (Million Units)
- Table 24. Global SPAD Array Chips Sales Market Share by Array Format (2021-2026)
- Table 25. Global SPAD Array Chips Revenue by Array Format (2021-2026) & (\$ million)
- Table 26. Global SPAD Array Chips Revenue Market Share by Array Format (2021-2026)
- Table 27. Global SPAD Array Chips Sale Price by Array Format (2021-2026) &

(US\$/Unit)

Table 28. Major Players of Surface Mount

Table 29. Major Players of Chip Scale Package

Table 30. Major Players of Others

Table 31. Global SPAD Array Chips Sales by Packaging (2021-2026) & (Million Units)

Table 32. Global SPAD Array Chips Sales Market Share by Packaging (2021-2026)

Table 33. Global SPAD Array Chips Revenue by Packaging (2021-2026) & (\$ million)

Table 34. Global SPAD Array Chips Revenue Market Share by Packaging (2021-2026)

Table 35. Global SPAD Array Chips Sale Price by Packaging (2021-2026) & (US\$/Unit)

Table 36. Global SPAD Array Chips Sale by Application (2021-2026) & (Million Units)

Table 37. Global SPAD Array Chips Sale Market Share by Application (2021-2026)

Table 38. Global SPAD Array Chips Revenue by Application (2021-2026) & (\$ million)

Table 39. Global SPAD Array Chips Revenue Market Share by Application (2021-2026)

Table 40. Global SPAD Array Chips Sale Price by Application (2021-2026) & (US\$/Unit)

Table 41. Global SPAD Array Chips Sales by Company (2021-2026) & (Million Units)

Table 42. Global SPAD Array Chips Sales Market Share by Company (2021-2026)

Table 43. Global SPAD Array Chips Revenue by Company (2021-2026) & (\$ millions)

Table 44. Global SPAD Array Chips Revenue Market Share by Company (2021-2026)

Table 45. Global SPAD Array Chips Sale Price by Company (2021-2026) & (US\$/Unit)

Table 46. Key Manufacturers SPAD Array Chips Producing Area Distribution and Sales Area

Table 47. Players SPAD Array Chips Products Offered

Table 48. SPAD Array Chips Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 49. New Products and Potential Entrants

Table 50. Market M&A Activity & Strategy

Table 51. Global SPAD Array Chips Sales by Geographic Region (2021-2026) & (Million Units)

Table 52. Global SPAD Array Chips Sales Market Share Geographic Region (2021-2026)

Table 53. Global SPAD Array Chips Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 54. Global SPAD Array Chips Revenue Market Share by Geographic Region (2021-2026)

Table 55. Global SPAD Array Chips Sales by Country/Region (2021-2026) & (Million Units)

Table 56. Global SPAD Array Chips Sales Market Share by Country/Region (2021-2026)

Table 57. Global SPAD Array Chips Revenue by Country/Region (2021-2026) & (\$ millions)

Table 58. Global SPAD Array Chips Revenue Market Share by Country/Region (2021-2026)

Table 59. Americas SPAD Array Chips Sales by Country (2021-2026) & (Million Units)

Table 60. Americas SPAD Array Chips Sales Market Share by Country (2021-2026)

Table 61. Americas SPAD Array Chips Revenue by Country (2021-2026) & (\$ millions)

Table 62. Americas SPAD Array Chips Sales by Type (2021-2026) & (Million Units)

Table 63. Americas SPAD Array Chips Sales by Application (2021-2026) & (Million Units)

Table 64. APAC SPAD Array Chips Sales by Region (2021-2026) & (Million Units)

Table 65. APAC SPAD Array Chips Sales Market Share by Region (2021-2026)

Table 66. APAC SPAD Array Chips Revenue by Region (2021-2026) & (\$ millions)

Table 67. APAC SPAD Array Chips Sales by Type (2021-2026) & (Million Units)

Table 68. APAC SPAD Array Chips Sales by Application (2021-2026) & (Million Units)

Table 69. Europe SPAD Array Chips Sales by Country (2021-2026) & (Million Units)

Table 70. Europe SPAD Array Chips Revenue by Country (2021-2026) & (\$ millions)

Table 71. Europe SPAD Array Chips Sales by Type (2021-2026) & (Million Units)

Table 72. Europe SPAD Array Chips Sales by Application (2021-2026) & (Million Units)

Table 73. Middle East & Africa SPAD Array Chips Sales by Country (2021-2026) & (Million Units)

Table 74. Middle East & Africa SPAD Array Chips Revenue Market Share by Country (2021-2026)

Table 75. Middle East & Africa SPAD Array Chips Sales by Type (2021-2026) & (Million Units)

Table 76. Middle East & Africa SPAD Array Chips Sales by Application (2021-2026) & (Million Units)

Table 77. Key Market Drivers & Growth Opportunities of SPAD Array Chips

Table 78. Key Market Challenges & Risks of SPAD Array Chips

Table 79. Key Industry Trends of SPAD Array Chips

Table 80. SPAD Array Chips Raw Material

Table 81. Key Suppliers of Raw Materials

Table 82. SPAD Array Chips Distributors List

Table 83. SPAD Array Chips Customer List

Table 84. Global SPAD Array Chips Sales Forecast by Region (2027-2032) & (Million Units)

Table 85. Global SPAD Array Chips Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 86. Americas SPAD Array Chips Sales Forecast by Country (2027-2032) & (Million Units)

Table 87. Americas SPAD Array Chips Annual Revenue Forecast by Country

(2027-2032) & (\$ millions)

Table 88. APAC SPAD Array Chips Sales Forecast by Region (2027-2032) & (Million Units)

Table 89. APAC SPAD Array Chips Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 90. Europe SPAD Array Chips Sales Forecast by Country (2027-2032) & (Million Units)

Table 91. Europe SPAD Array Chips Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 92. Middle East & Africa SPAD Array Chips Sales Forecast by Country (2027-2032) & (Million Units)

Table 93. Middle East & Africa SPAD Array Chips Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 94. Global SPAD Array Chips Sales Forecast by Type (2027-2032) & (Million Units)

Table 95. Global SPAD Array Chips Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 96. Global SPAD Array Chips Sales Forecast by Application (2027-2032) & (Million Units)

Table 97. Global SPAD Array Chips Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 98. Shenzhen Adaps Photonics Technology Co., Ltd. Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 99. Shenzhen Adaps Photonics Technology Co., Ltd. SPAD Array Chips Product Portfolios and Specifications

Table 100. Shenzhen Adaps Photonics Technology Co., Ltd. SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Shenzhen Adaps Photonics Technology Co., Ltd. Main Business

Table 102. Shenzhen Adaps Photonics Technology Co., Ltd. Latest Developments

Table 103. Shenzhen Fortsense Technology Co., Ltd. Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 104. Shenzhen Fortsense Technology Co., Ltd. SPAD Array Chips Product Portfolios and Specifications

Table 105. Shenzhen Fortsense Technology Co., Ltd. SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Shenzhen Fortsense Technology Co., Ltd. Main Business

Table 107. Shenzhen Fortsense Technology Co., Ltd. Latest Developments

Table 108. Suzhou Sophoton Technology Co., Ltd. Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 109. Suzhou Sophoton Technology Co., Ltd. SPAD Array Chips Product Portfolios and Specifications

Table 110. Suzhou Sophoton Technology Co., Ltd. SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. Suzhou Sophoton Technology Co., Ltd. Main Business

Table 112. Suzhou Sophoton Technology Co., Ltd. Latest Developments

Table 113. Shenzhen PolarisIC Microelectronics Co., Ltd. Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 114. Shenzhen PolarisIC Microelectronics Co., Ltd. SPAD Array Chips Product Portfolios and Specifications

Table 115. Shenzhen PolarisIC Microelectronics Co., Ltd. SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. Shenzhen PolarisIC Microelectronics Co., Ltd. Main Business

Table 117. Shenzhen PolarisIC Microelectronics Co., Ltd. Latest Developments

Table 118. Hangzhou Microparity Technology Co., Ltd. Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 119. Hangzhou Microparity Technology Co., Ltd. SPAD Array Chips Product Portfolios and Specifications

Table 120. Hangzhou Microparity Technology Co., Ltd. SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 121. Hangzhou Microparity Technology Co., Ltd. Main Business

Table 122. Hangzhou Microparity Technology Co., Ltd. Latest Developments

Table 123. Sony Semiconductor Solutions Corporation Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 124. Sony Semiconductor Solutions Corporation SPAD Array Chips Product Portfolios and Specifications

Table 125. Sony Semiconductor Solutions Corporation SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 126. Sony Semiconductor Solutions Corporation Main Business

Table 127. Sony Semiconductor Solutions Corporation Latest Developments

Table 128. STMicroelectronics N.V. Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 129. STMicroelectronics N.V. SPAD Array Chips Product Portfolios and Specifications

Table 130. STMicroelectronics N.V. SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 131. STMicroelectronics N.V. Main Business

Table 132. STMicroelectronics N.V. Latest Developments

Table 133. Hamamatsu Photonics K.K. Basic Information, SPAD Array Chips

Manufacturing Base, Sales Area and Its Competitors

Table 134. Hamamatsu Photonics K.K. SPAD Array Chips Product Portfolios and Specifications

Table 135. Hamamatsu Photonics K.K. SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 136. Hamamatsu Photonics K.K. Main Business

Table 137. Hamamatsu Photonics K.K. Latest Developments

Table 138. Canon Inc. Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 139. Canon Inc. SPAD Array Chips Product Portfolios and Specifications

Table 140. Canon Inc. SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 141. Canon Inc. Main Business

Table 142. Canon Inc. Latest Developments

Table 143. Micro Photon Devices S.r.l. Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 144. Micro Photon Devices S.r.l. SPAD Array Chips Product Portfolios and Specifications

Table 145. Micro Photon Devices S.r.l. SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 146. Micro Photon Devices S.r.l. Main Business

Table 147. Micro Photon Devices S.r.l. Latest Developments

Table 148. Pi Imaging Technology SA Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 149. Pi Imaging Technology SA SPAD Array Chips Product Portfolios and Specifications

Table 150. Pi Imaging Technology SA SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 151. Pi Imaging Technology SA Main Business

Table 152. Pi Imaging Technology SA Latest Developments

Table 153. SolidVue Basic Information, SPAD Array Chips Manufacturing Base, Sales Area and Its Competitors

Table 154. SolidVue SPAD Array Chips Product Portfolios and Specifications

Table 155. SolidVue SPAD Array Chips Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 156. SolidVue Main Business

Table 157. SolidVue Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of SPAD Array Chips
- Figure 2. SPAD Array Chips Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global SPAD Array Chips Sales Growth Rate 2021-2032 (Million Units)
- Figure 7. Global SPAD Array Chips Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. SPAD Array Chips Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. SPAD Array Chips Sales Market Share by Country/Region (2025)
- Figure 10. SPAD Array Chips Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of SPAD Sensor Arrays
- Figure 12. Product Picture of SPAD Imaging Arrays
- Figure 13. Product Picture of SPAD Timing Arrays
- Figure 14. Product Picture of Others
- Figure 15. Global SPAD Array Chips Sales Market Share by Type in 2026
- Figure 16. Global SPAD Array Chips Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Visible Band
- Figure 18. Product Picture of Near Infrared Band
- Figure 19. Product Picture of Broad Spectrum Band
- Figure 20. Global SPAD Array Chips Sales Market Share by Spectral Band in 2026
- Figure 21. Global SPAD Array Chips Revenue Market Share by Spectral Band (2021-2026)
- Figure 22. Product Picture of Area Arrays
- Figure 23. Product Picture of Linear Arrays
- Figure 24. Product Picture of Small Format Arrays
- Figure 25. Global SPAD Array Chips Sales Market Share by Array Format in 2026
- Figure 26. Global SPAD Array Chips Revenue Market Share by Array Format (2021-2026)
- Figure 27. Product Picture of Surface Mount
- Figure 28. Product Picture of Chip Scale Package
- Figure 29. Product Picture of Others
- Figure 30. Global SPAD Array Chips Sales Market Share by Packaging in 2026
- Figure 31. Global SPAD Array Chips Revenue Market Share by Packaging (2021-2026)

- Figure 32. SPAD Array Chips Consumed in Automotive
- Figure 33. Global SPAD Array Chips Market: Automotive (2021-2026) & (Million Units)
- Figure 34. SPAD Array Chips Consumed in Consumer
- Figure 35. Global SPAD Array Chips Market: Consumer (2021-2026) & (Million Units)
- Figure 36. SPAD Array Chips Consumed in Industrial & Medical
- Figure 37. Global SPAD Array Chips Market: Industrial & Medical (2021-2026) & (Million Units)
- Figure 38. SPAD Array Chips Consumed in Others
- Figure 39. Global SPAD Array Chips Market: Others (2021-2026) & (Million Units)
- Figure 40. Global SPAD Array Chips Sale Market Share by Application (2025)
- Figure 41. Global SPAD Array Chips Revenue Market Share by Application in 2025
- Figure 42. SPAD Array Chips Sales by Company in 2025 (Million Units)
- Figure 43. Global SPAD Array Chips Sales Market Share by Company in 2025
- Figure 44. SPAD Array Chips Revenue by Company in 2025 (\$ millions)
- Figure 45. Global SPAD Array Chips Revenue Market Share by Company in 2025
- Figure 46. Global SPAD Array Chips Sales Market Share by Geographic Region (2021-2026)
- Figure 47. Global SPAD Array Chips Revenue Market Share by Geographic Region in 2025
- Figure 48. Americas SPAD Array Chips Sales 2021-2026 (Million Units)
- Figure 49. Americas SPAD Array Chips Revenue 2021-2026 (\$ millions)
- Figure 50. APAC SPAD Array Chips Sales 2021-2026 (Million Units)
- Figure 51. APAC SPAD Array Chips Revenue 2021-2026 (\$ millions)
- Figure 52. Europe SPAD Array Chips Sales 2021-2026 (Million Units)
- Figure 53. Europe SPAD Array Chips Revenue 2021-2026 (\$ millions)
- Figure 54. Middle East & Africa SPAD Array Chips Sales 2021-2026 (Million Units)
- Figure 55. Middle East & Africa SPAD Array Chips Revenue 2021-2026 (\$ millions)
- Figure 56. Americas SPAD Array Chips Sales Market Share by Country in 2025
- Figure 57. Americas SPAD Array Chips Revenue Market Share by Country (2021-2026)
- Figure 58. Americas SPAD Array Chips Sales Market Share by Type (2021-2026)
- Figure 59. Americas SPAD Array Chips Sales Market Share by Application (2021-2026)
- Figure 60. United States SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Canada SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 62. Mexico SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Brazil SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 64. APAC SPAD Array Chips Sales Market Share by Region in 2025
- Figure 65. APAC SPAD Array Chips Revenue Market Share by Region (2021-2026)
- Figure 66. APAC SPAD Array Chips Sales Market Share by Type (2021-2026)
- Figure 67. APAC SPAD Array Chips Sales Market Share by Application (2021-2026)

- Figure 68. China SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Japan SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 70. South Korea SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Southeast Asia SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 72. India SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Australia SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 74. China Taiwan SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Europe SPAD Array Chips Sales Market Share by Country in 2025
- Figure 76. Europe SPAD Array Chips Revenue Market Share by Country (2021-2026)
- Figure 77. Europe SPAD Array Chips Sales Market Share by Type (2021-2026)
- Figure 78. Europe SPAD Array Chips Sales Market Share by Application (2021-2026)
- Figure 79. Germany SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 80. France SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 81. UK SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Italy SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Russia SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Middle East & Africa SPAD Array Chips Sales Market Share by Country (2021-2026)
- Figure 85. Middle East & Africa SPAD Array Chips Sales Market Share by Type (2021-2026)
- Figure 86. Middle East & Africa SPAD Array Chips Sales Market Share by Application (2021-2026)
- Figure 87. Egypt SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 88. South Africa SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Israel SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 90. Turkey SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 91. GCC Countries SPAD Array Chips Revenue Growth 2021-2026 (\$ millions)
- Figure 92. Manufacturing Cost Structure Analysis of SPAD Array Chips in 2026
- Figure 93. Manufacturing Process Analysis of SPAD Array Chips
- Figure 94. Industry Chain Structure of SPAD Array Chips
- Figure 95. Channels of Distribution
- Figure 96. Global SPAD Array Chips Sales Market Forecast by Region (2027-2032)
- Figure 97. Global SPAD Array Chips Revenue Market Share Forecast by Region (2027-2032)
- Figure 98. Global SPAD Array Chips Sales Market Share Forecast by Type (2027-2032)
- Figure 99. Global SPAD Array Chips Revenue Market Share Forecast by Type (2027-2032)
- Figure 100. Global SPAD Array Chips Sales Market Share Forecast by Application (2027-2032)

Figure 101. Global SPAD Array Chips Revenue Market Share Forecast by Application
(2027-2032)

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