

Global SPAD based Sensor Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global SPAD based Sensor market size will reach 1,494.88 Million USD in 2025 and is projected to reach 3,562.87 Million USD by 2032, with a CAGR of 13.21% (2025-2032). Notably, the China SPAD based Sensor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A SPAD-based sensor (Single-Photon Avalanche Diode) is an advanced photodetector designed to detect individual photons with exceptional sensitivity and precise timing. It operates by amplifying the signal from a single photon through an avalanche multiplication process, triggered when the diode is biased above its breakdown voltage. This results in a detectable electrical pulse for each photon, allowing for highly accurate measurements of light intensity and timing. SPAD sensors are vital in applications such as quantum cryptography, medical imaging, Lidar systems, and biophotonics, where detecting low light levels and precise timing are crucial. Their high sensitivity, fast response time, and low noise make them indispensable for scientific and industrial uses.

The major global manufacturers of SPAD based Sensor include STMicroelectronics, ams OSRAM, Sony, Canon, visionICs, Adaps Photonics, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant

industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of SPAD based Sensor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global SPAD based Sensor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the SPAD based Sensor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of SPAD based Sensor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of SPAD based Sensor Include:

STMicroelectronics

ams OSRAM

Sony

Canon

visionICs

Adaps Photonics

SPAD based Sensor Product Segment Include:

1D dToF Sensor

3D dToF Sensor

SPAD based Sensor Product Application Include:

Consumer Electronics

Industrial Automation

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global SPAD based Sensor Industry PESTEL Analysis

Chapter 3: Global SPAD based Sensor Industry Porter's Five Forces Analysis

Chapter 4: Global SPAD based Sensor Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global SPAD based Sensor Market Size and Forecast by Type and Application Analysis

Chapter 6: North America SPAD based Sensor Competitive Analysis (Market Size, Key

Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe SPAD based Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China SPAD based Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) SPAD based Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America SPAD based Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa SPAD based Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global SPAD based Sensor Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

Contents

1 SPAD BASED SENSOR MARKET OVERVIEW

- 1.1 Product Definition and Statistical Scope
- 1.2 SPAD based Sensor Product by Type
 - 1.2.1 1D dToF Sensor
 - 1.2.2 3D dToF Sensor
- 1.3 SPAD based Sensor Product by Application
 - 1.3.1 Consumer Electronics
 - 1.3.2 Industrial Automation
 - 1.3.3 Others
- 1.4 Global SPAD based Sensor Market Revenue and Sales Analysis
 - 1.4.1 Global SPAD based Sensor Revenue Market Size Analysis (2020-2032)
 - 1.4.2 Global SPAD based Sensor Sales Market Size Analysis (2020-2032)
 - 1.4.3 Global SPAD based Sensor Market Sales Price Trend Analysis (2020-2032)
- 1.5 SPAD based Sensor Industry Trends and Innovation
 - 1.5.1 SPAD based Sensor Industry Trends and Innovation
 - 1.5.2 SPAD based Sensor Market Drivers and Challenges

2 SPAD BASED SENSOR MARKET PESTEL ANALYSIS

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

3 SPAD BASED SENSOR MARKET PORTER'S FIVE FORCES ANALYSIS

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

4 GLOBAL SPAD BASED SENSOR MARKET ANALYSIS BY REGIONS

- 4.1 Global SPAD based Sensor Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global SPAD based Sensor Revenue and Forecast Analysis (2020-2032)
 - 4.2.1 Global SPAD based Sensor Revenue and Market Share by Region (2020-2025)
 - 4.2.2 Global SPAD based Sensor Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global SPAD based Sensor Sales and Forecast Analysis (2020-2032)
 - 4.3.1 Global SPAD based Sensor Sales and Market Share by Region (2020-2025)
 - 4.3.2 Global SPAD based Sensor Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global SPAD based Sensor Sales Price Trend Analysis (2020-2032)

5 GLOBAL SPAD BASED SENSOR MARKET SIZE BY TYPE AND APPLICATION

- 5.1 Global SPAD based Sensor Market Size by Type
 - 5.1.1 Global SPAD based Sensor Revenue and Forecast Analysis by Type (2020-2032)
 - 5.1.2 Global SPAD based Sensor Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global SPAD based Sensor Market Size by Application
 - 5.2.1 Global SPAD based Sensor Revenue and Forecast Analysis by Application (2020-2032)
 - 5.2.2 Global SPAD based Sensor Sales and Forecast Analysis by Application (2020-2032)

6 NORTH AMERICA

- 6.1 North America SPAD based Sensor Market Size and Growth Rate Analysis (2020-2032)
- 6.2 North America Key Manufacturers Analysis
- 6.3 North America SPAD based Sensor Market Size by Type
 - 6.3.1 North America SPAD based Sensor Sales by Type (2020-2032)
 - 6.3.2 North America SPAD based Sensor Revenue by Type (2020-2032)
- 6.4 North America SPAD based Sensor Market Size by Application
 - 6.4.1 North America SPAD based Sensor Sales by Application (2020-2032)
 - 6.4.2 North America SPAD based Sensor Revenue by Application (2020-2032)
- 6.5 North America SPAD based Sensor Market Size by Country
 - 6.5.1 US
 - 6.5.2 Canada

7 EUROPE

- 7.1 Europe SPAD based Sensor Market Size and Growth Rate Analysis (2020-2032)
- 7.2 Europe Key Manufacturers Analysis
- 7.3 Europe SPAD based Sensor Market Size by Type
 - 7.3.1 Europe SPAD based Sensor Sales by Type (2020-2032)
 - 7.3.2 Europe SPAD based Sensor Revenue by Type (2020-2032)
- 7.4 Europe SPAD based Sensor Market Size by Application
 - 7.4.1 Europe SPAD based Sensor Sales by Application (2020-2032)
 - 7.4.2 Europe SPAD based Sensor Revenue by Application (2020-2032)
- 7.5 Europe SPAD based Sensor Market Size by Country
 - 7.5.1 Germany
 - 7.5.2 France
 - 7.5.3 United Kingdom
 - 7.5.4 Italy
 - 7.5.5 Spain
 - 7.5.6 Benelux

8 CHINA

- 8.1 China SPAD based Sensor Market Size and Growth Rate Analysis (2020-2032)
- 8.2 China Key Manufacturers Analysis
- 8.3 China SPAD based Sensor Market Size by Type
 - 8.3.1 China SPAD based Sensor Sales by Type (2020-2032)
 - 8.3.2 China SPAD based Sensor Revenue by Type (2020-2032)
- 8.4 China SPAD based Sensor Market Size by Application
 - 8.4.1 China SPAD based Sensor Sales by Application (2020-2032)
 - 8.4.2 China SPAD based Sensor Revenue by Application (2020-2032)

9 APAC (EXCL. CHINA)

- 9.1 APAC (excl. China) SPAD based Sensor Market Size and Growth Rate Analysis (2020-2032)
- 9.2 APAC (excl. China) Key Manufacturers Analysis
- 9.3 APAC (excl. China) SPAD based Sensor Market Size by Type
 - 9.3.1 APAC (excl. China) SPAD based Sensor Sales by Type (2020-2032)
 - 9.3.2 APAC (excl. China) SPAD based Sensor Revenue by Type (2020-2032)
- 9.4 APAC (excl. China) SPAD based Sensor Market Size by Application
 - 9.4.1 APAC (excl. China) SPAD based Sensor Sales by Application (2020-2032)
 - 9.4.2 APAC (excl. China) SPAD based Sensor Revenue by Application (2020-2032)

9.5 APAC (excl. China) SPAD based Sensor Market Size by Country

9.5.1 Japan

9.5.2 South Korea

9.5.3 India

9.5.4 Australia

9.5.5 Southeast Asia

10 LATIN AMERICA

10.1 Latin America SPAD based Sensor Market Size and Growth Rate Analysis (2020-2032)

10.2 Latin America Key Manufacturers Analysis

10.3 Latin America SPAD based Sensor Market Size by Type

10.3.1 Latin America SPAD based Sensor Sales by Type (2020-2032)

10.3.2 Latin America SPAD based Sensor Revenue by Type (2020-2032)

10.4 Latin America SPAD based Sensor Market Size by Application

10.4.1 Latin America SPAD based Sensor Sales by Application (2020-2032)

10.4.2 Latin America SPAD based Sensor Revenue by Application (2020-2032)

10.5 Latin America SPAD based Sensor Market Size by Country

10.6 Latin America SPAD based Sensor Market Size by Country

10.6.1 Mexico

10.6.2 Brazil

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa SPAD based Sensor Market Size and Growth Rate Analysis (2020-2032)

11.2 Middle East & Africa Key Manufacturers Analysis

11.3 Middle East & Africa SPAD based Sensor Market Size by Type

11.3.1 Middle East & Africa SPAD based Sensor Sales by Type (2020-2032)

11.3.2 Middle East & Africa SPAD based Sensor Revenue by Type (2020-2032)

11.4 Middle East & Africa SPAD based Sensor Market Size by Application

11.4.1 Middle East & Africa SPAD based Sensor Sales by Application (2020-2032)

11.4.2 Middle East & Africa SPAD based Sensor Revenue by Application (2020-2032)

11.5 Middle East SPAD based Sensor Market Size by Country

11.5.1 Saudi Arabia

11.5.2 South Africa

12 COMPETITION BY MANUFACTURERS

12.1 Global SPAD based Sensor Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

12.1.1 Global SPAD based Sensor Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global SPAD based Sensor Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global SPAD based Sensor Average Sales Price by Manufacturers (2021-2025)

12.2 SPAD based Sensor Competitive Landscape Analysis and Market Dynamic

12.2.1 SPAD based Sensor Competitive Landscape Analysis

12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

12.2.3 Market Dynamic

13 KEY COMPANIES ANALYSIS

13.1 STMicroelectronics

13.1.1 STMicroelectronics Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 STMicroelectronics SPAD based Sensor Product Portfolio

13.1.3 STMicroelectronics SPAD based Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.2 ams OSRAM

13.2.1 ams OSRAM Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 ams OSRAM SPAD based Sensor Product Portfolio

13.2.3 ams OSRAM SPAD based Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.3 Sony

13.3.1 Sony Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 Sony SPAD based Sensor Product Portfolio

13.3.3 Sony SPAD based Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.4 Canon

13.4.1 Canon Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 Canon SPAD based Sensor Product Portfolio

13.4.3 Canon SPAD based Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.5 visionICs

13.5.1 visionICs Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 visionICs SPAD based Sensor Product Portfolio

13.5.3 visionICs SPAD based Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.6 Adaps Photonics

13.6.1 Adaps Photonics Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.6.2 Adaps Photonics SPAD based Sensor Product Portfolio

13.6.3 Adaps Photonics SPAD based Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14 INDUSTRY CHAIN ANALYSIS

14.1 SPAD based Sensor Industry Chain Analysis

14.2 SPAD based Sensor Industry Raw Material and Suppliers Analysis

14.2.1 SPAD based Sensor Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 SPAD based Sensor Typical Downstream Customers

14.4 SPAD based Sensor Sales Channel Analysis

15 RESEARCH FINDINGS AND CONCLUSION

16 METHODOLOGY AND DATA SOURCE

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1: Global SPAD based Sensor Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)
- Table 2: Global SPAD based Sensor Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)
- Table 3: SPAD based Sensor Industry Development Status
- Table 4: SPAD based Sensor Industry Development Trends
- Table 5: Global SPAD based Sensor Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032
- Table 6: Global SPAD based Sensor Revenue by Region (2020-2025) & (US\$ Million)
- Table 7: Global SPAD based Sensor Revenue Market Share by Region (2020-2025)
- Table 8: Global SPAD based Sensor Revenue Forecast by Region (2026-2032) & (US\$ Million)
- Table 9: Global SPAD based Sensor Revenue Market Share Forecast by Region (2026-2032)
- Table 10: Global SPAD based Sensor Sales by Region (2020-2025) & (K Unit)
- Table 11: Global SPAD based Sensor Sales Market Share by Region (2020-2025)
- Table 12: Global SPAD based Sensor Sales Forecast by Region (2026-2032) & (K Unit)
- Table 13: Global SPAD based Sensor Sales Market Share Forecast by Region (2026-2032)
- Table 14: Global SPAD based Sensor Revenue Analysis by Type (2020-2025) & (US\$ Million)
- Table 15: Global SPAD based Sensor Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)
- Table 16: Global SPAD based Sensor Sales Analysis by Type (2020-2025) & (K Unit)
- Table 17: Global SPAD based Sensor Sales Analysis Forecast by Type (2026-2032) & (K Unit)
- Table 18: Global SPAD based Sensor Revenue Analysis by Application (2020-2025) & (US\$ Million)
- Table 19: Global SPAD based Sensor Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)
- Table 20: Global SPAD based Sensor Sales Analysis by Application (2020-2025) & (K Unit)
- Table 21: Global SPAD based Sensor Sales Analysis Forecast by Application (2026-2032) & (K Unit)
- Table 22: Key SPAD based Sensor Players in North America

Table 23: North America SPAD based Sensor Sales by Type (2020-2025) & (K Unit)

Table 24: North America SPAD based Sensor Sales by Type (2026-2032) & (K Unit)

Table 25: North America SPAD based Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America SPAD based Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America SPAD based Sensor Sales by Application (2020-2025) & (K Unit)

Table 28: North America SPAD based Sensor Sales by Application (2026-2032) & (K Unit)

Table 29: North America SPAD based Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America SPAD based Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America SPAD based Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America SPAD based Sensor Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America SPAD based Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 34: North America SPAD based Sensor Sales Market Size by Country (2026-2032) & (K Unit)

Table 35: Key SPAD based Sensor Players in Europe

Table 36: Europe SPAD based Sensor Sales by Type (2020-2025) & (K Unit)

Table 37: Europe SPAD based Sensor Sales by Type (2026-2032) & (K Unit)

Table 38: Europe SPAD based Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe SPAD based Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe SPAD based Sensor Sales by Application (2020-2025) & (K Unit)

Table 41: Europe SPAD based Sensor Sales by Application (2026-2032) & (K Unit)

Table 42: Europe SPAD based Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe SPAD based Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe SPAD based Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe SPAD based Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe SPAD based Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 47: Europe SPAD based Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 48: Key SPAD based Sensor Players in China

Table 49: China SPAD based Sensor Sales by Type (2020-2025) & (K Unit)

Table 50: China SPAD based Sensor Sales by Type (2026-2032) & (K Unit)

Table 51: China SPAD based Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 52: China SPAD based Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 53: China SPAD based Sensor Sales by Application (2020-2025) & (K Unit)

Table 54: China SPAD based Sensor Sales by Application (2026-2032) & (K Unit)

Table 55: China SPAD based Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 56: China SPAD based Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 57: Key SPAD based Sensor Players in APAC (excl. China)

Table 58: APAC (excl. China) SPAD based Sensor Sales by Type (2020-2025) & (K Unit)

Table 59: APAC (excl. China) SPAD based Sensor Sales by Type (2026-2032) & (K Unit)

Table 60: APAC (excl. China) SPAD based Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) SPAD based Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) SPAD based Sensor Sales by Application (2020-2025) & (K Unit)

Table 63: APAC (excl. China) SPAD based Sensor Sales by Application (2026-2032) & (K Unit)

Table 64: APAC (excl. China) SPAD based Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) SPAD based Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 66: APAC (excl. China) SPAD based Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) SPAD based Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) SPAD based Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 69: APAC (excl. China) SPAD based Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 70: Key SPAD based Sensor Players in Latin America

Table 71: Latin America SPAD based Sensor Sales by Type (2020-2025) & (K Unit)

Table 72: Latin America SPAD based Sensor Sales by Type (2026-2032) & (K Unit)

Table 73: Latin America SPAD based Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America SPAD based Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America SPAD based Sensor Sales by Application (2020-2025) & (K Unit)

Table 76: Latin America SPAD based Sensor Sales by Application (2026-2032) & (K Unit)

Table 77: Latin America SPAD based Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America SPAD based Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America SPAD based Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America SPAD based Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America SPAD based Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 82: Latin America SPAD based Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 83: Key SPAD based Sensor Players in Middle East & Africa

Table 84: Middle East & Africa SPAD based Sensor Sales by Type (2020-2025) & (K Unit)

Table 85: Middle East & Africa SPAD based Sensor Sales by Type (2026-2032) & (K Unit)

Table 86: Middle East & Africa SPAD based Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 87: Middle East & Africa SPAD based Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 88: Middle East & Africa SPAD based Sensor Sales by Application (2020-2025) & (K Unit)

Table 89: Middle East & Africa SPAD based Sensor Sales by Application (2026-2032) & (K Unit)

Table 90: Middle East & Africa SPAD based Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 91: Middle East & Africa SPAD based Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 92: Middle East & Africa SPAD based Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 93: Middle East & Africa SPAD based Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 94: Middle East & Africa SPAD based Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 95: Middle East & Africa SPAD based Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 96: Global SPAD based Sensor Market Sales by Key Manufacturers (2021-2025) & (K Unit)

Table 97: Global SPAD based Sensor Sales Market Share by Key Manufacturers (2021-2025)

Table 98: Global SPAD based Sensor Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 99: Global SPAD based Sensor Revenue Market Share by Key Manufacturers (2021-2025)

Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Unit)

Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 102: Market Mergers & Acquisitions, Expansion

Table 103: STMicroelectronics Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 104: STMicroelectronics SPAD based Sensor Product Portfolio

Table 105: STMicroelectronics SPAD based Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 106: ams OSRAM Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 107: ams OSRAM SPAD based Sensor Product Portfolio

Table 108: ams OSRAM SPAD based Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 109: Sony Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: Sony SPAD based Sensor Product Portfolio

Table 111: Sony SPAD based Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 112: Canon Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 113: Canon SPAD based Sensor Product Portfolio

Table 114: Canon SPAD based Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 115: visionICs Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: visionICs SPAD based Sensor Product Portfolio

Table 117: visionICs SPAD based Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 118: Adaps Photonics Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: Adaps Photonics SPAD based Sensor Product Portfolio

Table 120: Adaps Photonics SPAD based Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 121: Upstream Key Raw Material Price List

Table 122: SPAD based Sensor Raw Material Suppliers and Contact Information

Table 123: SPAD based Sensor Typical Customer List

Table 124: SPAD based Sensor Distributors List

List Of Figures

LIST OF FIGURES

Figure 1: SPAD based Sensor Product Pictures

Figure 2: 1D dToF Sensor Picture Scope

Figure 3: 3D dToF Sensor Picture Scope

Figure 4: Consumer Electronics Picture Scope

Figure 5: Industrial Automation Picture Scope

Figure 6: Others Picture Scope

Figure 7: Global SPAD based Sensor Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)

Figure 8: Global SPAD based Sensor Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)

Figure 9: Global SPAD based Sensor Market Sales and Growth Rate Analysis (2020-2032) & (K Unit)

Figure 10: Global SPAD based Sensor Market Price Trend Analysis (2020-2032) & (USD/Unit)

Figure 11: Global SPAD based Sensor Market Size by Region (2020-2032) & (US\$ Million)

Figure 12: Global SPAD based Sensor Market Share Scenario by Region in Percentage: 2025 Versus 2032

Figure 13: Global SPAD based Sensor Sales Price by Region (2020-2032) & (K Unit)

Figure 14: North America SPAD based Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 15: North America SPAD based Sensor Revenue Market Share by Players in 2024

Figure 16: North America SPAD based Sensor Sales Market Share by Type (2020-2032)

Figure 17: North America SPAD based Sensor Revenue Market Share by Type (2020-2032)

Figure 18: North America SPAD based Sensor Sales Market Share by Application (2020-2032)

Figure 19: North America SPAD based Sensor Revenue Market Share by Application (2020-2032)

Figure 20: US SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 21: Canada SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 22: Europe SPAD based Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 23: Europe SPAD based Sensor Revenue Market Share by Players in 2024

Figure 24:Europe SPAD based Sensor Sales Market Share by Type (2020-2032)

Figure 25:Europe SPAD based Sensor Revenue Market Share by Type (2020-2032)

Figure 26:Europe SPAD based Sensor Sales Market Share by Application (2020-2032)

Figure 27:Europe SPAD based Sensor Revenue Market Share by Application
(2020-2032)

Figure 28:Germany SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 29:France SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 30:United Kingdom SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 31:Italy SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 32:Spain SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 33:Benelux SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 34:China SPAD based Sensor Market Size and Growth Rate (2020-2032) &
(US\$ Million)

Figure 35:China SPAD based Sensor Revenue Market Share by Players in 2024

Figure 36:China SPAD based Sensor Sales Market Share by Type (2020-2032)

Figure 37:China SPAD based Sensor Revenue Market Share by Type (2020-2032)

Figure 38:China SPAD based Sensor Sales Market Share by Application (2020-2032)

Figure 39:China SPAD based Sensor Revenue Market Share by Application
(2020-2032)

Figure 40:APAC (excl. China) SPAD based Sensor Market Size and Growth Rate
(2020-2032) & (US\$ Million)

Figure 41:APAC (excl. China) SPAD based Sensor Revenue Market Share by Players
in 2024

Figure 42:APAC (excl. China) SPAD based Sensor Sales Market Share by Type
(2020-2032)

Figure 43:APAC (excl. China) SPAD based Sensor Revenue Market Share by Type
(2020-2032)

Figure 44:APAC (excl. China) SPAD based Sensor Sales Market Share by Application
(2020-2032)

Figure 45:APAC (excl. China) SPAD based Sensor Revenue Market Share by
Application (2020-2032)

Figure 46:Japan SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 47:South Korea SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 48:India SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 49:Australia SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 50:Southeast Asia SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 51:Latin America SPAD based Sensor Market Size and Growth Rate
(2020-2032) & (US\$ Million)

Figure 52:Latin America SPAD based Sensor Revenue Market Share by Players in

2024

Figure 53:Latin America SPAD based Sensor Sales Market Share by Type (2020-2032)

Figure 54:Latin America SPAD based Sensor Revenue Market Share by Type (2020-2032)

Figure 55:Latin America SPAD based Sensor Sales Market Share by Application (2020-2032)

Figure 56:Latin America SPAD based Sensor Revenue Market Share by Application (2020-2032)

Figure 57:Mexico SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 58:Brazil SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 59:Middle East & Africa SPAD based Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 60:Middle East & Africa SPAD based Sensor Revenue Market Share by Players in 2024

Figure 61:Middle East & Africa SPAD based Sensor Sales Market Share by Type (2020-2032)

Figure 62:Middle East & Africa SPAD based Sensor Revenue Market Share by Type (2020-2032)

Figure 63:Middle East & Africa SPAD based Sensor Sales Market Share by Application (2020-2032)

Figure 64:Middle East & Africa SPAD based Sensor Revenue Market Share by Application (2020-2032)

Figure 65:Saudi Arabia SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 66:South Africa SPAD based Sensor Revenue (2020-2032) & (US\$ Million)

Figure 67:Global SPAD based Sensor Sales Market Share by Key Manufacturers in 2024

Figure 68:Global SPAD based Sensor Revenue Market Share by Key Manufacturers in 2024

Figure 69:Global SPAD based Sensor Industry Competition Landscape

Figure 70:SPAD based Sensor Industry Chain Analysis

Figure 71:Bottom-Up and Top-Down Research Methods

Figure 72:Key Interview Objectives

Figure 73:Data Cross Validation

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