

# Global Single-Photon Avalanche Photodiode (SPAD) Market Growth 2023-2029

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## Abstracts

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Single-photon avalanche diode (SPAD) is a solid-state photodetector within the same family as photodiodes and avalanche photodiodes (APDs), while also being fundamentally linked with basic diode behaviours. As with photodiodes and APDs, a SPAD is based around a semi-conductor p-n junction that can be illuminated with ionizing radiation such as gamma, x-rays, beta and alpha particles along with a wide portion of the electromagnetic spectrum from ultraviolet (UV) through the visible wavelengths and into the infrared (IR).

LPI (LP Information)' newest research report, the "Single-Photon Avalanche Photodiode (SPAD) Industry Forecast" looks at past sales and reviews total world Single-Photon Avalanche Photodiode (SPAD) sales in 2022, providing a comprehensive analysis by region and market sector of projected Single-Photon Avalanche Photodiode (SPAD) sales for 2023 through 2029. With Single-Photon Avalanche Photodiode (SPAD) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Single-Photon Avalanche Photodiode (SPAD) industry.

This Insight Report provides a comprehensive analysis of the global Single-Photon Avalanche Photodiode (SPAD) 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 Single-Photon Avalanche Photodiode (SPAD) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Single-Photon

## Avalanche Photodiode (SPAD) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-Photon Avalanche Photodiode (SPAD) 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 Single-Photon Avalanche Photodiode (SPAD).

The global Single-Photon Avalanche Photodiode (SPAD) market size is projected to grow from US\$ 374.7 million in 2022 to US\$ 1328 million in 2029; it is expected to grow at a CAGR of 1328 from 2023 to 2029.

Global key players of single photon avalanche photodiode include Hamamatsu, STMicroelectronics, ON Semiconductor, Laser Components, Micro Photon Devices, etc. The top three players hold a share over 61%. Japan is the largest producer of Single Photon Avalanche Photodiode, holds a share over 43 percent. In terms of product type, 300nm~1100nm is the largest segment, occupied for a share of 77%, and in terms of application, LIDAR (3D Ranging and Sensing) has a share about 33 percent.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-Photon Avalanche Photodiode (SPAD) market by product type, application, key manufacturers and key regions and countries.

### Market Segmentation:

#### Segmentation by type

300nm~1100nm

1100nm~1600nm

1600nm~1700nm

#### Segmentation by application

LIDAR (3D Ranging and Sensing)

Medical Imaging

Fluorescence Lifetime and Photocorrelation and Ultrasensitive Spectroscopy

Other Single Photon Detection

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

STMicroelectronics

ON Semiconductor

Laser Components

Micro Photon Devices

Sony Semiconductor

Canon

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Single-Photon Avalanche Photodiode (SPAD) market?

What factors are driving Single-Photon Avalanche Photodiode (SPAD) market growth, globally and by region?

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

How do Single-Photon Avalanche Photodiode (SPAD) market opportunities vary by end market size?

How does Single-Photon Avalanche Photodiode (SPAD) break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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