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Global SPAD ToF Depth Sensor Market Growth 2025-2031

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Abstracts

The global SPAD ToF Depth Sensor market size is predicted to grow from US$ 742 million in 2025 to US$ 1535 million in 2031; it is expected to grow at a CAGR of 12.9% from 2025 to 2031.

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

A single-photon avalanche diode (SPAD) is a pixel structure that uses the 'avalanche multiplication' principle to multiply the electrons from a single incident photon, just like an avalanche in the real world. It can detect even weak incident light. By using this structure as a light-receiving element in a SPAD ToF depth sensor, long-range, high-precision distance measurement is possible. The sensor measures the distance to an object by detecting the flight time (time difference) from the time a signal is emitted from a light source to the time it is reflected by an object and returns to the image sensor.

United States market for SPAD ToF Depth Sensor is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for SPAD ToF Depth Sensor is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for SPAD ToF Depth Sensor is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key SPAD ToF Depth Sensor players cover Hamamatsu Photonics,

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STMicroelectronics, Onsemi, Sony Semiconductor Solutions Corporation, Canon Inc., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “SPAD ToF Depth Sensor Industry Forecast” looks at past sales and reviews total world SPAD ToF Depth Sensor sales in 2024, providing a comprehensive analysis by region and market sector of projected SPAD ToF Depth Sensor sales for 2025 through 2031. With SPAD ToF Depth Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world SPAD ToF Depth Sensor industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SPAD ToF Depth Sensor 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 ToF Depth Sensor.

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

Segmentation by Type:

Direct Time of Flight (dToF)

Indirect Time of Flight (iToF)

Segmentation by Application:

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Consumer Electronics/AR/VR Applications

Photographic Equipment

Autonomous Vehicles

Medical Diagnostic Imaging

Industrial Automation

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

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Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hamamatsu Photonics

STMicroelectronics

Onsemi

Sony Semiconductor Solutions Corporation

Canon Inc.

AMS OSRAM

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SK Hynix

Fraunhofer IMS

Laser Components

PolarisIC

Adaps Photonics

Sophoton

Evisionics

Fortsense

Microparity

Shitong (Shenzhen) Microelectronics Technology Co., Ltd.

Xilight

Key Questions Addressed in this Report

What is the 10-year outlook for the global SPAD ToF Depth Sensor market?
What factors are driving SPAD ToF Depth Sensor market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do SPAD ToF Depth Sensor market opportunities vary by end market size?
How does SPAD ToF Depth Sensor break out by Type, by Application?

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