

Global Single Photon Detectors Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Single Photon Detectors market size will reach 76.31 Million USD in 2025 and is projected to reach 150.04 Million USD by 2032, with a CAGR of 10.14% (2025-2032). Notably, the China Single Photon Detectors 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

Single photon detectors are highly sensitive devices designed to detect individual photons of light. These detectors operate on the principle of converting incoming photons into an electrical signal, allowing for the precise measurement and counting of photons at the single-photon level. Various types of single photon detectors exist, including photomultiplier tubes (PMTs), avalanche photodiodes (APDs), and single photon avalanche photodiodes (SPADs). These detectors are essential tools in a wide range of applications such as quantum optics, quantum communication, quantum cryptography, fluorescence spectroscopy, lidar systems, and low-light imaging. Their high sensitivity and ability to detect single photons enable groundbreaking advancements in research, technology, and various scientific disciplines by providing unprecedented capabilities for measuring and manipulating light at the quantum level.

The major global manufacturers of Single Photon Detectors include ID Quantique, Scontel, Single Quantum, Quantum Opus, Thorlabs, AUREA Technology, Photon Spot, Photec, 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 Single Photon Detectors. 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 Single Photon Detectors 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 Single Photon Detectors 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 Single Photon Detectors 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 Single Photon Detectors Include:

ID Quantique

Scontel

Single Quantum

Quantum Opus

Thorlabs

AUREA Technology

Photon Spot

Photec

Single Photon Detectors Product Segment Include:

Semiconductor Detector

Superconducting Detector

Single Photon Detectors Product Application Include:

Quantum Communication

Biomedical Imaging

Other

Chapter Scope

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

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