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Global Infrared Single-Photon Counter Market Growth 2025-2031

https://marketpublishers.com/r/GB3E1998D195EN.html
Date: August 2025
Pages: 118
Price: US$ 3,660.00 (Single User License)
ID: GB3E1998D195EN

Abstracts

The global Infrared Single-Photon Counter market size is predicted to grow from US$ 285 million in 2025 to US$ 466 million in 2031; it is expected to grow at a CAGR of 8.5% 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.

An infrared single-photon counter is a highly sensitive photodetection device capable of detecting and counting individual photons in the infrared (IR) spectral range, typically from 900 nm to 1700 nm or beyond. These devices operate based on various detection principles, such as avalanche photodiodes (APDs), superconducting nanowire single-photon detectors (SNSPDs), or photomultiplier-based systems, and are essential in applications requiring extremely low-light-level sensitivity. Infrared single-photon counters are designed to operate with high quantum efficiency, low dark count rate, and high timing resolution, enabling precise measurements of photon arrival times at the nanosecond or even picosecond level. They are critical components in cutting-edge technologies such as quantum key distribution (QKD), LIDAR, optical time-domain reflectometry, biomedical imaging, and astronomical observations. In particular, SNSPDs offer the best performance in terms of speed, sensitivity, and noise suppression, though they require cryogenic cooling. By converting discrete infrared photon events into measurable electrical pulses, these detectors enable researchers and engineers to measure, analyze, and utilize single-photon-level signals that would otherwise be undetectable with conventional sensors. As quantum optics, secure communication, and ultra-sensitive imaging systems continue to advance, infrared single-photon counters play an increasingly vital role in expanding the limits of optical

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detection.

United States market for Infrared Single-Photon Counter 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 Infrared Single-Photon Counter 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 Infrared Single-Photon Counter is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Infrared Single-Photon Counter players cover ID Quantique, AUREA Technology, Becker & Hickl, Thorlabs, S-Fifteen Instruments, 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 “Infrared Single-Photon Counter Industry Forecast” looks at past sales and reviews total world Infrared Single-Photon Counter sales in 2024, providing a comprehensive analysis by region and market sector of projected Infrared Single-Photon Counter sales for 2025 through 2031. With Infrared Single-Photon Counter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Infrared Single-Photon Counter industry.

This Insight Report provides a comprehensive analysis of the global Infrared Single-Photon Counter 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 Infrared Single-Photon Counter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Infrared Single-Photon Counter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Single-Photon Counter 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 Infrared Single-Photon Counter.

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This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Single-Photon Counter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

- InGaAs/InP Type
- HgCdTe (MCT) Type
- Others

Segmentation by Application:

- Quantum Communication and Information Security
- Lidar and Remote Sensing
- Astronomy and Deep Space Exploration
- Biomedicine and Imaging Technology
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC

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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

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from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ID Quantique

AUREA Technology

Becker & Hickl

Thorlabs

S-Fifteen Instruments

Laser Components

Quantum Opus

Hamamatsu Photonics

Micro Photon Devices

QuantumCTek

Beijing RMY Electronics

Key Questions Addressed in this Report

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

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