

Global Single-photon Emission Computed Tomography Market Size study, by Product (Stand-alone SPECT Systems, Hybrid SPECT Systems), by Application (Cardiology, Oncology), by End Use, and Regional Forecasts 2022-2032

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Abstracts

Global Single-photon Emission Computed Tomography (SPECT) Market is valued approximately at USD 3.7 billion in 2023 and is anticipated to grow with a moderate CAGR of 2.78% over the forecast period 2024 to 2032. SPECT, a pivotal component of nuclear imaging, delivers functional insights by capturing gamma rays emitted from radiotracers within the body. This non-invasive modality empowers clinicians to assess perfusion, metabolic activity, and organ function—critical in identifying cardiovascular disease, monitoring tumor progression, and evaluating neurological disorders. With continuous hardware evolution and hybrid integration with CT, the technology is redefining diagnostic clarity and enabling more personalized therapeutic approaches.

Several factors are orchestrating the steady growth of the global SPECT market. As the global burden of cardiovascular and oncological diseases escalates, demand for accurate and early-stage diagnostics is intensifying. Hybrid SPECT/CT systems, combining molecular imaging with anatomical precision, are gaining traction due to their enhanced resolution and functional versatility. Additionally, SPECT is increasingly being utilized for theranostic applications, allowing simultaneous diagnosis and treatment planning in oncology. The integration of artificial intelligence is streamlining image acquisition, noise reduction, and reconstruction workflows—paving the way for faster turnaround and heightened diagnostic accuracy.

Despite its clinical advantages, the SPECT market grapples with several constraints. These include the high cost of imaging equipment and radiopharmaceuticals, limited

availability of specialized radiologists, and radiation exposure concerns. Additionally, reimbursement disparities and logistical issues in radiotracer supply chains—especially in developing countries—pose adoption hurdles. However, increasing healthcare investments, favorable regulatory support for radiopharmaceutical innovation, and the emergence of compact SPECT systems are mitigating these barriers and broadening the accessibility spectrum.

As regional landscapes evolve, North America remains the epicenter of the SPECT market owing to robust infrastructure, early adoption of hybrid systems, and substantial investments in nuclear cardiology and oncology diagnostics. The U.S. leads the regional front due to comprehensive insurance models and a mature network of nuclear medicine facilities. Europe follows closely, with Germany and the UK investing in public imaging programs and research trials. Meanwhile, Asia Pacific is projected to be the fastest-growing region, driven by increasing cancer prevalence, growing geriatric populations, and rapid modernization of diagnostic services across China, India, and Southeast Asia.

Major market player included in this report are:

Siemens Healthineers AG

GE Healthcare

Canon Medical Systems Corporation

Koninklijke Philips N.V.

Digirad Corporation

Bracco Imaging S.p.A.

Curium Pharma

Mediso Medical Imaging Systems Ltd.

Spectrum Dynamics Medical

MILabs B.V.

Jubilant Radiopharma

Hologic, Inc.

United Imaging Healthcare Co., Ltd.

Positron Corporation

Segami Corporation

The detailed segments and sub-segment of the market are explained below:

By Product

Stand-alone SPECT Systems

Hybrid SPECT Systems

By Application

Cardiology

Oncology

By End Use

Hospitals

Diagnostic Imaging Centers

Research & Academic Institutes

Ambulatory Surgical Centers

By Region:

Global Single-photon Emission Computed Tomography Market Size study, by Product (Stand-alone SPECT Systems, Hy...

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Companies Mentioned

Siemens Healthineers AG

GE Healthcare

Canon Medical Systems Corporation

Koninklijke Philips N.V.

Digirad Corporation

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Curium Pharma

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