

Nuclear Imaging Equipment Market to Reach \$5.46B by 2031 Amid Rising Chronic Disease & Tech | DataM Intelligence

Nuclear Imaging Equipment Market is set to grow to \$5.46B by 2031, driven by tech advances, rising chronic diseases, and expanding global healthcare needs.

AUSTIN, TX, UNITED STATES, June 2, 2025 /EINPresswire.com/ -- The [Nuclear Imaging Equipment Market](#) was valued at USD 3.18 billion in 2023 and is expected to grow to around USD 5.46 billion by 2031, reflecting a compound annual growth rate (CAGR) of 7.1%. This growth is attributed to the increasing demand for advanced diagnostic tools and the adoption of hybrid imaging systems that combine functional and anatomical imaging.



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Nuclear imaging market to grow from \$3.18B in 2023 to \$5.46B by 2031, driven by 7.1% CAGR and advances in AI, hybrid tech, and rising chronic disease prevalence.”
DataM Intelligence

The nuclear imaging equipment market is experiencing significant growth, driven by advancements in technology, increasing prevalence of chronic diseases, and rising healthcare expenditures. Nuclear imaging modalities, such as Positron Emission Tomography (PET) and Single Photon Emission Computed Tomography (SPECT), play a crucial role in diagnosing and monitoring various medical conditions, including cancer, cardiovascular diseases, and neurological disorders.

Regional Outlook

North America

North America holds a dominant position in the nuclear imaging equipment market, accounting for a substantial portion of the global market share. The United States, in particular, is a significant contributor, with strong demand driven by the high prevalence of chronic diseases, advancements in imaging technologies, and supportive healthcare policies.

Asia Pacific

The Asia Pacific region is expected to register the highest CAGR during the forecast period. Countries like Japan, China, and South Korea are investing heavily in healthcare infrastructure and advanced diagnostic technologies. Japan's nuclear imaging equipment market is projected to expand rapidly, fueled by an aging population and increasing cancer incidence.

Europe

Europe is witnessing steady growth in the nuclear imaging equipment market, with countries such as Germany, France, and the UK leading the adoption of advanced imaging technologies. The introduction of innovative systems, such as Siemens Healthineers' Symbia Pro.specta SPECT/CT system, has enhanced diagnostic capabilities and contributed to market expansion.

Key Market Players

Siemens Healthcare GmbH

GE Healthcare

Philips Healthcare

Canon Medical Systems Corp

Serac Imaging Systems Ltd

Neusoft Medical Systems Co Ltd

DIGIRAD HEALTH INC

Mediso Ltd

PerkinElmer

MILabs B.V

Market Segmentation:

By Product: Positron Emission Tomography (PET) Systems, Positron Emission

Tomography/Computed Tomography (PET/CT) Systems, Positron Emission Tomography/Magnetic Resonance Imaging (PET/MRI) Systems, Single Photon Emission Computed Tomography (SPECT) Systems, Single Photon Emission Computed Tomography/Computed Tomography (SPECT/CT) Systems.

By Application: Oncology, Cardiology, Neurology, Others.

By End-users: Hospitals, Imaging Centers, Academic & Research Centers, Others.

By Region: North America, Europe, South America, Asia Pacific, Middle East, and Africa.

Technological Advancements

Recent technological innovations are shaping the nuclear imaging equipment market:

Hybrid Imaging Systems: The integration of PET/CT and SPECT/CT systems allows for simultaneous anatomical and functional imaging, improving diagnostic accuracy.

Artificial Intelligence (AI) Integration: AI algorithms are being incorporated into imaging systems to enhance image analysis, reduce interpretation time, and improve diagnostic outcomes.

Photon-Counting Technology: Advances in detector technology, such as Siemens' Naeotom Alpha, offer improved image quality and reduced radiation exposure.

Challenges

High Costs: The initial investment and maintenance costs of nuclear imaging systems can be prohibitive for healthcare facilities, especially in developing regions.

Regulatory Hurdles: Strict regulatory requirements and approval processes can delay the introduction of new technologies to the market.

Shortage of Radiopharmaceuticals: The availability of radiopharmaceuticals is limited, affecting the utilization of nuclear imaging systems.

Latest News

USA

In the United States, the nuclear imaging equipment market is experiencing growth due to technological advancements and increasing demand for diagnostic imaging. However, recent trade policies, such as proposed tariffs on European goods, have raised concerns among

manufacturers. Siemens Healthineers, for instance, faces potential disruptions in its supply chain and increased costs for its photon-counting CT scanner, Naeotom Alpha, which is popular among U.S. healthcare providers.

Japan

Japan's expanding senior demographic and high cancer incidence are propelling demand for nuclear imaging technologies. The government is promoting personalized healthcare and precision medicine, leading to increased adoption of advanced imaging technologies. Companies like United Imaging Healthcare are expanding their presence in Japan, contributing to market growth.

Conclusion

The nuclear imaging equipment market is poised for significant growth, driven by technological advancements, increasing healthcare expenditures, and the rising prevalence of chronic diseases. While challenges such as high costs and regulatory hurdles exist, the market's positive outlook is supported by innovations in imaging technologies and the expansion of healthcare infrastructure globally.

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