

Positron Emission Tomography [PET] Scanners Market to Cross USD 3.1 Bn by 2035 at 3.2% CAGR | TMR

Governments and healthcare systems are advancing adoption of PET scanners, recognizing their vital role in early, accurate, and personalized disease diagnosis.

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EINPresswire.com/ -- The global [positron emission tomography \(PET\) scanners market](#) has been witnessing steady growth due to rising demand for advanced diagnostic imaging technologies. Valued at US\$ 2.2 Bn in 2024, the industry is projected to expand at a CAGR of 3.2% from 2025 to

2035, eventually crossing US\$ 3.1 Bn by 2035. PET scanners, known for their ability to assess metabolic activity in tissues and organs, have become indispensable in oncology, cardiology, and neurology. With continued technological advancements and increasing demand for personalized medicine, the PET scanners market is poised for sustained expansion over the coming decade.

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Market Size and Growth

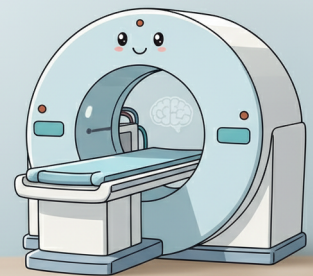
The PET scanners market has demonstrated resilience despite the high costs associated with installation and maintenance. Market growth is fueled by increasing awareness of the clinical benefits PET imaging provides over traditional diagnostic tools. Unlike conventional imaging that primarily offers structural insights, PET delivers functional data, making it highly valuable for the early detection of diseases such as cancer, Alzheimer's, and heart disease. The fusion of PET with other modalities like CT and MRI has further strengthened its clinical relevance by enabling simultaneous structural and metabolic imaging. This integrated approach is improving diagnostic

Global Postion Emesion Tomterogapy [PET] Scanners Market Outlook 2035

The global
was valued at
US\$ 22 Bn
in 2024



It is
projmated
to grow at
a CAGR of
3.2%
from 2025
to 2031



and cross **US\$ 3.1 Bn** by the end of 2035.

Positron Emission Tomography [PET] Scanners Market

accuracy, leading to higher adoption rates among hospitals and diagnostic centers. By 2035, steady demand from both developed and emerging markets will ensure that PET scanners remain a cornerstone of advanced diagnostic imaging.

Market Segmentation

Segmentation of the PET scanners market is typically based on modality, application, end-use, and region. Among modalities, PET/CT scanners dominate, owing to their ability to combine metabolic data from PET with the anatomical precision of CT scans. This hybrid imaging has become the preferred solution for cancer staging and treatment monitoring. PET/MRI scanners, although less widespread due to high costs, are gaining traction in neurology and pediatric applications where soft tissue imaging is critical.

In terms of applications, oncology represents the largest segment, accounting for the majority of PET scanner usage worldwide. The ability of PET imaging to assess tumor activity and monitor treatment effectiveness makes it indispensable in cancer care. Beyond oncology, cardiology applications such as assessing myocardial viability and neurology applications like diagnosing Alzheimer's disease are also witnessing increased uptake.

When segmented by end-use, hospitals and diagnostic centers remain the primary users due to the scale of imaging demand, while research institutions and academic centers represent a growing segment driven by molecular imaging studies and clinical trials. This segmentation reflects the expanding scope of PET technology across multiple healthcare domains.

Regional Analysis

North America continues to lead the global PET scanners market, supported by advanced healthcare infrastructure, high adoption of cutting-edge technology, and favorable reimbursement policies. The United States, in particular, benefits from significant investments in oncology care, clinical trials, and hybrid imaging systems. Strong manufacturer presence in the region further reinforces North America's dominance.

Europe also represents a significant market, with countries such as Germany, France, and the UK making notable strides in adopting PET/MRI technologies. The region's focus on precision medicine and government support for advanced diagnostics continues to support market expansion.

Meanwhile, Asia-Pacific is emerging as the fastest-growing region due to rising cancer prevalence, growing healthcare investments, and the establishment of modern diagnostic facilities. China and India, in particular, are experiencing a surge in demand for PET scanners, aided by expanding healthcare coverage and government initiatives. Latin America and the Middle East are also expected to record steady growth, though limited budgets and infrastructure challenges remain constraints in some parts of these regions.

Market Drivers and Challenges

The PET scanners market is propelled by two major drivers: the rising prevalence of chronic diseases and the growing demand for personalized medicine. Chronic illnesses such as cancer, cardiovascular diseases, and neurological disorders account for the majority of global deaths, necessitating advanced imaging for early detection and effective treatment monitoring. PET scanners' ability to capture functional and metabolic changes in tissues makes them indispensable in managing such conditions. Additionally, the shift toward personalized medicine—tailoring treatment based on individual biology—is amplifying the use of PET scans to guide patient-specific therapies.

Market Trends

Several key trends are reshaping the PET scanners landscape. Hybrid imaging technologies, particularly PET/CT and PET/MRI, are expanding diagnostic capabilities, enabling clinicians to combine functional and anatomical insights in a single session. Another major trend is the transition from analog to digital PET systems, which offer superior image resolution, reduced scanning times, and lower radiation exposure for patients.

The integration of artificial intelligence (AI) is also driving transformation. AI-assisted image analysis enhances workflow efficiency, reduces interpretation errors, and supports predictive analytics for disease management. Additionally, portable and compact PET systems are gaining traction, increasing accessibility in outpatient and community care settings. These trends underscore the industry's focus on improving efficiency, patient comfort, and diagnostic precision.

Competitive Landscape

The PET scanners market is highly competitive, with global leaders focusing on innovation, strategic partnerships, and geographic expansion. GE HealthCare, Siemens Healthineers, Philips, Canon Medical Systems, and United Imaging Healthcare are among the key players, consistently investing in hybrid systems and AI-driven imaging solutions. Emerging companies such as Positron AG and SynchronPET are carving a niche with portable PET solutions, aimed at expanding access in under-served regions.

Mergers, acquisitions, and collaborations with research institutions are common strategies, enabling companies to strengthen their product portfolios and radiotracer pipelines. Additionally, manufacturers are investing in cost-effective solutions to cater to the needs of developing countries, recognizing the growing demand for advanced diagnostics in these markets.

Future Outlook

Looking ahead, the PET scanners market is expected to maintain steady growth through 2035, with hybrid imaging systems and digital PET leading the charge. Advances in radiotracers and AI integration will significantly enhance diagnostic accuracy and expand clinical applications. The continued shift toward personalized medicine and non-invasive diagnostics will further drive adoption, ensuring PET remains central to modern healthcare.

While high costs and infrastructure challenges may continue to pose barriers in certain regions, global expansion initiatives and government-backed healthcare investments are likely to mitigate these issues. By 2035, PET imaging is set to become more accessible, precise, and patient-friendly, cementing its role as an essential tool in disease management and medical research.

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