

Positron Emission Tomography (PET) Scanners Market Research Reveals Strong 6.3% CAGR Outlook Through 2030

*The Business Research Company's
Positron Emission Tomography (PET)
Scanners Market Report 2026 – Market
Size, Trends, And Global Forecast 2026-
2035*

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/EINPresswire.com/ -- "The [positron](#)

[emission tomography \(PET\) scanners industry](#) has been experiencing steady growth and shows promising potential moving forward. As medical imaging technology continues to advance, PET scanners are becoming essential tools for diagnosing and monitoring a range of chronic diseases. Below, we explore the current market size, key growth drivers, leading regional players, and emerging trends shaping this important healthcare segment.

Current Market Size and Projected Growth of the [Positron Emission Tomography \(PET\) Scanners Market](#)

The [PET scanners market](#) has expanded significantly in recent years, valued at \$1.58 billion in 2025 and expected to rise to \$1.66 billion by 2026, reflecting a compound annual growth rate (CAGR) of 5.2%. This positive momentum stems from several factors, including a growing number of cancer and chronic disease cases that require functional imaging, increased hospital adoption of PET-CT systems for oncology diagnostics, and advancements in detector technologies such as gadolinium oxyorthosilicate and bismuth germanium oxide. Additionally, the expansion of diagnostic imaging facilities in hospitals and specialty centers, along with mounting clinical evidence supporting the use of PET imaging in treatment planning, have contributed to this growth.

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Looking ahead, the market is set to grow further, reaching \$2.12 billion by 2030 with a stronger CAGR of 6.3%. This forecast is driven by rising demand for hybrid PET-MRI and sophisticated PET-



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CT platforms, increased use of lutetium fine silicate and lutetium oxyorthosilicate detectors, and expanding applications in cardiology and neurology. Moreover, growing access to PET scanners in emerging healthcare markets and a stronger focus on precision imaging for personalized therapy assessments are expected to propel the market. Key trends shaping the future include wider adoption of PET-CT and PET-MRI for advanced disease diagnosis and monitoring, increased use of PET in oncology for cancer detection and treatment evaluation, preference for hybrid and high-resolution imaging systems, and the extension of PET applications across cardiology, neurology, and gastroenterology. The deployment of PET scanners is also rising in hospitals and diagnostic centers worldwide.

Understanding the Role of PET Scanners in Medical Imaging

A PET scanner is a sophisticated medical imaging device that produces detailed three-dimensional images of the body's internal structures. It operates by using a radioactive substance to detect and analyze the function of various organs, making it highly effective for identifying and managing chronic diseases. PET scanners are most commonly employed to locate cancerous tissues and evaluate the effectiveness of cancer treatments, providing critical insights that assist healthcare providers in making informed decisions.

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Key Drivers Propelling Growth in the Positron Emission Tomography (PET) Scanners Market

One of the significant factors boosting the PET scanners market is the rising prevalence of brain disorders. These conditions, caused by illnesses, genetic factors, or injuries, impact the normal functioning of the brain. PET scans utilize a radioactive tracer to visualize both healthy and abnormal brain metabolic activity, enabling the monitoring of brain function, disease progression, and response to treatment. This capability allows for the diagnosis of brain conditions that may not be visible through other imaging techniques.

For example, the Alzheimer's Association reported in March 2024 that approximately 6.9 million Americans aged 65 and older are currently living with Alzheimer's dementia, a figure projected to nearly double, reaching 13.8 million by 2060. This increasing incidence of brain disorders is a crucial growth driver for the PET scanners market, highlighting the vital role these imaging devices play in neurological healthcare.

Regional Analysis of the Positron Emission Tomography (PET) Scanners Market

In 2025, North America was the leading market for PET scanners, holding the largest regional share. However, the Asia-Pacific region is anticipated to experience the fastest growth during the forecast period. The market report covers a comprehensive range of regions, including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a global perspective on market dynamics and growth.

opportunities.

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