

# Positron Emission Tomography (PET) Scanners – A Global Market Overview

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## Abstracts

### Positron Emission Tomography (PET) Scanners Market Trends and Outlook

A PET scanner is a medical imaging device that uses positron emission tomography (PET) technology to produce detailed images of the metabolic and biochemical processes occurring in tissues and organs, aiding in disease diagnosis, treatment monitoring, and medical research. It uses radioactive tracers marked with isotopes such as fluorine-18, which emit positrons that generate gamma rays when interacting with electrons in the body. These gamma rays are detected to produce images of areas exhibiting high metabolic activity, such as tumors, inflamed tissues, or regions affected by neurological conditions. PET scans are commonly used in oncology, neurology, and cardiology, often combined with PET/CT or PET/MRI systems to improve diagnostic accuracy and enable early disease detection by offering anatomical information. By concentrating on molecular mechanisms, PET imaging detects abnormalities at earlier stages compared to many other imaging techniques, making it particularly useful for targeted therapies, exploring complex diseases, and facilitating progress in personalized medicine across various medical specialties.

The global market for Positron Emission Tomography (PET) Scanners is anticipated to record a CAGR of 5.6% during the 2024-2030 analysis period and stand at a projected US\$2.5 billion by 2030 from an estimated PET scanners market size of US\$1.8 billion in 2024.

The global positron emission tomography (PET) scanners market is driven by the increasing prevalence of chronic diseases, especially cancer, which requires advanced imaging to ensure accurate diagnosis and effective treatment planning. As the global demographic ages, the demand for diagnostic imaging services is projected to increase,

resulting in greater use of PET scans in fields such as oncology, cardiology, and neurology. Technological innovations and the incorporation of hybrid imaging systems like PET/CT and PET/MRI enhance the functionality of PET scanners, enabling better tumor localization and improved treatment monitoring. The development of new radiotracers and imaging agents broadens the diagnostic uses of PET, leading to increased acceptance in clinical environments. Moreover, rising healthcare spending and the growth of healthcare facilities, particularly in emerging countries, support integrating advanced imaging technologies. Education and awareness among medical professionals about the benefits of PET scans further drive market expansion, alongside the increasing focus on personalized medicine, which depends on precise diagnostic tools. In addition, supportive reimbursement policies in several nations improve the availability of PET imaging services, encouraging their routine use in clinical practice.

### Positron Emission Tomography (PET) Scanners Regional Market Analysis

North America dominates the global market for PET scanners, accounting for 39.9% of the market share in 2024 due to advancements in PET imaging technologies, especially in oncology, and an increasing occurrence of cancers like breast and prostate cancer. The region's robust healthcare infrastructure, high spending levels, and considerable investments in research and development promote the early adoption of advanced medical imaging technologies. The rising demand for precise diagnostics, the launch of innovative imaging devices, and supportive reimbursement policies that improve accessibility further support this region's dominance. In contrast, the Asia-Pacific region is witnessing rapid market growth, projected to experience a CAGR of 6.5% during the forecast period 2024-2030, driven by advancements in healthcare infrastructure, rising disposable incomes, and heightened investments in healthcare technology. The increasing rates of chronic illnesses, including cancer and cardiovascular diseases, alongside strategic actions taken by market players in this area, further propel the demand for PET scanners.

### Positron Emission Tomography (PET) Scanners Market Analysis by Type

The positron emission tomography (PET) scanners market is categorized as full-ring and partial-ring PET scanners. The full-ring PET scanner market is the most prominent, accounting for 71.3% of the market share in 2024, and is projected to register rapid growth with a CAGR of 5.8% over the forecast period from 2024 to 2030, fueled by ongoing technological innovations. Full-ring scanners deliver superior image clarity and shorter scanning durations by collecting data from the entire circumference of the body, proving vital for identifying metastatic cancers and subtle irregularities across oncology,

neurology, and cardiology. Advances such as digital photon counting, and time-of-flight technology further improve their capabilities. Conversely, partial-ring PET Scanners are experiencing slower growth than full-ring PET scanners owing to their lower image quality and sensitivity, translating to decreased clinical popularity. The rising demand for hybrid imaging technologies and regulatory preferences toward advanced systems further restrict the market potential for partial-ring scanners. Although they present benefits like cost-effectiveness and smaller size, their reduced sensitivity and resolution limit their broader acceptance. Overall, the full-ring PET scanners segment solidifies its position as the largest and fastest-growing market within the PET scanner market.

### Positron Emission Tomography (PET) Scanners Market Analysis by Application

The PET scanner market is segmented into oncology, cardiology, neurology, and other applications. The oncology segment leads with a substantial 49.6% market share in 2024, primarily due to the growing prevalence of cancer, which creates a demand for effective screening and monitoring solutions. PET scans are crucial in identifying tumors, evaluating their metabolism, and determining treatment efficacy, making them essential tools for oncology departments globally. Their capacity to identify metabolic alterations in cancer cells increases their significance for diagnostic, staging, and restaging purposes. Meanwhile, the cardiology application segment is anticipated to record the fastest CAGR of 6.6% during the forecast period from 2024 to 2030, driven by the rising prevalence of cardiovascular diseases and the need for non-invasive diagnostic methods. PET imaging is instrumental in evaluating myocardial viability, blood flow, and overall cardiac function, promoting its use in cardiology settings.

### Positron Emission Tomography (PET) Scanners Market Analysis by End-User

The PET scanner market is segmented into hospitals, diagnostic centers, and other end-users. The hospital segment leads the PET scanners end-user market, accounting for a 51.4% share in 2024, gaining from high patient volumes and access to innovative diagnostic technologies, including state-of-the-art PET scanners. Established referral networks with insurance providers improve access to these expensive diagnostic machines, as health insurance typically covers the costs of PET scans, easing the financial burden on patients. Although hospitals prevail due to their extensive medical care capabilities, the diagnostic imaging centers segment is expected to witness the most rapid growth, with a CAGR of 6.2% during the analysis period 2024-2030. These centers are broadening their range of services and investing in PET technology, enabling them to provide more cost-effective imaging alternatives.

## Positron Emission Tomography (PET) Scanners Market Report Scope

This global report on Positron Emission Tomography (PET) Scanners analyzes the market based on type, application, and end-users for global and regional markets for 2021-2030 period with projection from 2024 to 2030 in terms of value in US\$. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

### Key Metrics

Historical Period: 2021-2023

Base Year: 2024

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 18+

## Positron Emission Tomography (PET) Scanners Market by Geographic Region

North America (The United States, Canada, and Mexico)

Europe (Germany, France, the United Kingdom, Italy, Spain, and Rest of Europe)

Asia-Pacific (Japan, China, India, South Korea, and Rest of Asia-Pacific)

South America (Brazil, Argentina, and Rest of South America)

Rest of World

## Positron Emission Tomography (PET) Scanners Market by Type

Full-Ring PET Scanners

## Partial-Ring PET Scanners

### Positron Emission Tomography (PET) Scanners Market by Application

Oncology

Cardiology

Neurology

Other Applications (Including Inflammatory and Infectious Diseases,  
Endocrinology, Gastroenterology, and Others)

### Positron Emission Tomography (PET) Scanners Market by End-User

Hospitals

Diagnostic Centers

Other End-Users (Including Research Institutes and Specialty Clinics)

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CMR Naviscan

GE Healthcare

Hitachi High-Tech Corporation

Koninklijke Philips N.V.

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Neusoft Medical Systems Co., Ltd.

Positron Corporation

Radiology Oncology Systems Inc.

RefleXion

Shimadzu Corporation

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