

Global PET/CT Imaging System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PET/CT Imaging System market size was valued at US\$ 432 million in 2025 and is forecast to a readjusted size of US\$ 819 million by 2032 with a CAGR of 9.6% during review period.

In 2025, global PET/CT Imaging System capacity 300 Units, sales reached approximately 280 Units, with an average market price of around 1,500 k USD/Unit, industrial gross margin 49%.

The PET/CT Imaging System market has moved beyond being a niche nuclear-medicine capital category and is now a core platform for oncology, neurology, cardiology, and theranostics-driven care pathways. The competitive structure is relatively clear: GE HealthCare, Siemens Healthineers, Philips, and United Imaging form the principal global group across digital PET/CT, long-axial-field-of-view PET/CT, total-body PET/CT, and PET/MR. Canon Medical retains relevance in digital PET/CT, mobile deployment, and radiation-oncology-oriented workflow, while Mediso plays a differentiated role in single-room SPECT/CT/PET integration and specialty or research settings. For professional buyers, the key question is no longer whether a PET Imaging System is available, but whether it can support higher throughput, lower dose, stronger quantification, and tighter linkage with radiopharmaceutical and clinical workflow ecosystems.

Competitive differentiation in a PET Imaging System is now defined by a composite performance stack rather than one headline specification. The most decision-relevant parameters are detector architecture, timing resolution and TOF capability, axial field of view, system sensitivity, and the strength of reconstruction and quantification software.

The technical trajectory is clear: the market has migrated from earlier BGO and conventional photomultiplier approaches toward LSO/LYSO-based detectors, SiPM and DPC architectures, and wider axial coverage. Public product references illustrate the shift well: Philips Vereos specifies 310 ps timing resolution, GE Omni Legend uses an all-digital platform with a 32 cm axial field of view, Siemens Biograph Vision Quadra extends axial PET coverage to 106 cm, and United Imaging's uEXPLORER reaches 194 cm for single-bed total-body imaging. In practice, this means procurement is increasingly centered on how many high-quality studies a PET Imaging System can deliver per unit time, how far dose can be reduced, and how effectively the system supports dynamic or multi-organ imaging.

The value chain around a PET Imaging System is broader than that of most conventional imaging modalities. Downstream demand is still anchored in oncology, but neurology, cardiology, therapy planning, response monitoring, and theranostics are lifting utilization and broadening the clinical role of PET. Midstream value lies with system manufacturers, reconstruction software, reading platforms, and service networks. Upstream, the stack includes LSO/LYSO crystals, SiPM/DPC detector assemblies, CT subsystems, high-performance computing, and room-shielding infrastructure. More importantly, PET Imaging Systems are tightly coupled to radiopharmaceutical supply: cyclotrons, hot cells, dispensing, short half-life logistics, and site reliability have a direct effect on scanner economics. Recent moves reinforce that integration. Siemens Healthineers has folded PETNET and AdAcAp under its Radiopharma segment, Curium acquired Nucleis to expand PET manufacturing and distribution in Western Europe, and IBA continues to position cyclotron infrastructure as a core enabler for PET production. The competitive frame is therefore shifting from ?selling scanners? to ?owning workflow, tracer access, and service continuity.?

The most important recent developments in the PET Imaging System market have centered on long axial field of view, total-body capability, and ecosystem integration. GE HealthCare received CE Mark in November 2025 for the Omni 128 cm total-body PET/CT, pushing the market further toward single-bed head-to-thigh imaging and low-dose workflows. In January 2026, Siemens Healthineers received FDA clearance for the second-generation Biograph One PET/MR, a reminder that PET/MR remains strategically relevant in selected high-end clinical and theranostic contexts. During 2025, Siemens also consolidated its radiopharma branding, while Curium expanded its PET manufacturing footprint through the acquisition of Nucleis. On the commercial side, a particularly useful transaction signal came from The Christie in the UK, which awarded a total-body/long-axial-FoV PET-CT contract to United Imaging in 2025 at about ?6.5 million. That kind of procurement decision shows that PET Imaging Systems are

increasingly being evaluated not simply as scanners, but as core infrastructure for oncology capacity, referral strategy, and translational research.

Looking ahead, the market path for PET Imaging Systems is unlikely to be defined by simple replacement cycles. Three forces matter most. First, long-axial and total-body PET/CT will continue to move from research-heavy centers into premium clinical practice because higher sensitivity translates into shorter scan times, lower dose, dynamic multi-organ imaging, and better fit for vulnerable populations such as pediatric patients. Second, expansion in radiopharmaceutical use—especially in oncology theranostics and cardiac PET—should increase study frequency and deepen the scanner's role in multidisciplinary care. Third, AI-based reconstruction, gating, quantification, and compact or mobile deployment models are making PET Imaging Systems more operationally scalable. The most durable growth opportunities therefore sit not only in new placements, but in throughput expansion, dose efficiency, tracer-linked workflows, and the conversion of PET into a more programmable clinical platform.

This report is a detailed and comprehensive analysis for global PET/CT Imaging System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PET/CT Imaging System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global PET/CT Imaging System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global PET/CT Imaging System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global PET/CT Imaging System market shares of main players, shipments in revenue

(\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for PET/CT Imaging System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global PET/CT Imaging System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include GE HealthCare, Siemens Healthcare, Philips, Canon, Mediso, Neusoft, Positron, Shanghai United Imaging Healthcare, Minfound Medical Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

PET/CT Imaging System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PET/CT

PET/MR

Others

Market segment by Technology

Conventional Type

Digital Type

Market segment by Axial Field of View

Standard-AFOV

Long-AFOV

Market segment by Application

Oncology

Cardiology

Neurology

Others

Major players covered

GE HealthCare

Siemens Healthcare

Philips

Canon

Mediso

Neusoft

Positrigo

Positron

Shanghai United Imaging Healthcare

Minfound Medical Systems

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PET/CT Imaging System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PET/CT Imaging System, with price, sales quantity, revenue, and global market share of PET/CT Imaging System from 2021 to 2026.

Chapter 3, the PET/CT Imaging System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PET/CT Imaging System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and PET/CT Imaging System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PET/CT Imaging System.

Chapter 14 and 15, to describe PET/CT Imaging System sales channel, distributors, customers, research findings and conclusion.

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