

Global PET Imaging System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PET Imaging System market size is expected to reach \$ 819 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

In 2025, global PET 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 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 studies the global PET Imaging System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PET Imaging System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PET Imaging System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PET Imaging System total production and demand, 2021-2032, (Units)

Global PET Imaging System total production value, 2021-2032, (USD Million)

Global PET Imaging System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global PET Imaging System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: PET Imaging System domestic production, consumption, key domestic manufacturers and share

Global PET Imaging System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global PET Imaging System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global PET Imaging System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global PET Imaging System market based on the following parameters - company overview, production, value, 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, Positrigo, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PET Imaging System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PET Imaging System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PET Imaging System Market, Segmentation by Type:

PET/CT

PET/MR

Others

Global PET Imaging System Market, Segmentation by Technology:

Conventional Type

Digital Type

Global PET Imaging System Market, Segmentation by Axial Field of View:

Standard-AFOV

Long-AFOV

Global PET Imaging System Market, Segmentation by Application:

Oncology

Cardiology

Neurology

Others

Companies Profiled:

GE HealthCare

Siemens Healthcare

Philips

Canon

Mediso

Neusoft

Positron

Positron

Shanghai United Imaging Healthcare

Minfound Medical Systems

Key Questions Answered:

1. How big is the global PET Imaging System market?
2. What is the demand of the global PET Imaging System market?
3. What is the year over year growth of the global PET Imaging System market?
4. What is the production and production value of the global PET Imaging System market?
5. Who are the key producers in the global PET Imaging System market?
6. What are the growth factors driving the market demand?

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