

PET-CT INSIGHTS: A COMPREHENSIVE GUIDE

Unlocking the Essentials of PET-CT Technology

EXPERT TIPS
& LATEST
ADVANCES

INSIDE

Practical Insights for
Professionals



Welcome

Sunrays Image Technology is India's leading provider of refurbished medical imaging equipment. Our mission is to make state-of-the-art medical technology accessible and affordable to healthcare institutions across the country.

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PET/CT MARKET OVERVIEW



1. PET/CT Market Overview

In the fast-evolving field of medical imaging, PET/CT scanners have become essential tools, especially for oncology, neurology, and cardiology. However, selecting the right PET/CT system can be overwhelming due to the variety of models, makes, and features available. At Sunrays Image Technology, we understand the unique challenges healthcare providers face when balancing quality with budget.

2. Why Choose Sunrays for PET/CT?

At Sunrays Image Technology, our mission is to simplify this selection process by providing reliable, high-quality refurbished PET/CT systems that meet your facility's specific needs at an accessible price. We offer end-to-end support—from procurement and refurbishment to installation and maintenance—ensuring you receive a system tailored to your clinical and financial requirements. Let us help you make an informed decision so you can confidently invest in the right technology for your facility.

GET TO KNOW US



Choosing Wisely

UNDERSTAND YOUR NEEDS FIRST!

When selecting a PET/CT, consider your primary applications—whether for cardiac, neurology, or oncology. Sunrays Image Technology can guide you in choosing a system with capabilities that align precisely with your practice's focus, avoiding unnecessary features that may increase costs.

Key Factors to Evaluate

TAILORED OPTIONS FOR YOUR PRACTICE

Essential features like slice count, cooling system, and software configurations play a big role in matching a PET/CT to your needs. At Sunrays, we ensure each system is configured to suit your operational requirements and budget, offering both fixed and mobile options for added flexibility.

UNDERSTANDING SLICE COUNT



Slice Count

CHOOSING THE RIGHT SLICE COUNT FOR YOUR NEEDS

Selecting the ideal slice count for a PET/CT system depends on your specific study types and local competition. Sunrays Image Technology offers guidance on choosing a system that aligns with your clinical focus and budget. For general oncology studies, any PET/CT system is effective. Cardiac studies, however, may require higher slice counts for insurance reimbursement or to stay competitive with other facilities. Unlike standalone CT systems, increased slice counts on PET/CT don't generally impact scan time due to the slower PET portion. Sunrays provides options from 2 to 64 slices across trusted brands like GE, Siemens, and Phillips.

Sunrays Image Technology understands that balancing cost, performance, and patient care is key when choosing a PET/CT system. Higher slice counts can enhance diagnostic capabilities for cardiac imaging, but for facilities focused on oncology or general imaging, lower slice counts often provide excellent value without compromising on quality. Our team will work closely with you to assess your unique needs, whether you aim to increase patient volume, meet reimbursement requirements, or offer specialized imaging services. By offering refurbished, high-quality systems, Sunrays helps facilities achieve advanced imaging capabilities at a fraction of the cost, with full support from selection to installation.

COOLING SYSTEM TYPES

Air-Cooled PET/CT Systems

Air-cooled PET/CT scanners use fan-driven ventilation to release heat from inside the gantry, which eliminates the need for an external chiller. Sunrays Image Technology offers air-cooled systems, perfect for facilities needing low maintenance and a smaller equipment footprint. Air-cooled options remove concerns about water quality and generally require less frequent preventive care. Additionally, the absence of cooling water infrastructure makes these systems simpler to install and maintain, ideal for healthcare providers who seek effective PET/CT imaging solutions with reduced complexity and maintenance demands—all while keeping costs manageable without compromising performance.

Water-Cooled PET/CT Systems

Water-cooled PET/CT scanners use external chillers, effectively maintaining ideal temperatures despite variations in room conditions. Sunrays Image Technology provides water-cooled systems, ideal for facilities seeking quieter, more comfortable imaging environments without additional HVAC requirements. Water cooling helps manage humidity and temperature fluctuations, providing a cleaner gantry without fan-based dust accumulation. These systems are well-suited for high-traffic or warmer environments and are recommended for facilities aiming to offer a smoother patient experience. Our expert team can advise you on choosing the right cooling system to meet your facility's specific needs and operational conditions.



ESSENTIAL SOFTWARE OPTIONS



Time of Flight Technology

FAST DETECTION FOR PRECISE IMAGING

Time of Flight (TOF) technology uses advanced detectors to measure the minute timing differences between detected photons, enhancing the speed and accuracy of scans. Sunrays Image Technology offers TOF-enabled PET/CT systems, which allow reduced radiation doses and faster scan times without compromising image quality. Ideal for facilities needing high throughput with optimal image clarity, TOF-equipped systems are suited for various imaging studies and contribute to more efficient diagnostic workflows.

Calcium Scoring Capabilities

SCAN AND DETECT CARDIAC CALCIUM DEPOSITS

Calcium scoring is essential for identifying calcium deposits in heart arteries, assessing cardiac risks, and is available on most PET/CT models provided by Sunrays Image Technology. This feature provides valuable insights for heart disease diagnosis and is accessible on nearly all PET/CT systems, although brand-specific software names may vary. With calcium scoring, facilities can offer vital preventative cardiac care, supporting early intervention and better outcomes for patients at risk of heart disease.

Cardiac Gating Solutions

ALIGN SCANS WITH HEARTBEAT FOR CLARITY



Cardiac gating synchronizes images with specific heartbeat phases, ensuring more accurate myocardial perfusion imaging. Available as a factory option on most PET/CT systems offered by Sunrays Image Technology, cardiac gating enhances imaging for cardiac studies, improving diagnostic clarity.

Respiratory Gating Technology

Compensate for breathing in PET/CT scans



Respiratory gating adjusts for natural breathing movement during scans, delivering clearer images even during respiratory fluctuations. Sunrays' PET/CT systems support add-on respiratory gating options for smoother imaging, using top-tier motion-tracking technology to ensure stable, reliable scan data. This feature is ideal for lung and abdominal imaging, where motion can often interfere with image clarity, offering a refined and consistent solution for dynamic, high-accuracy scanning needs.

Mobile-Friendly PET/CT Models

Compact, air-cooled systems for mobility

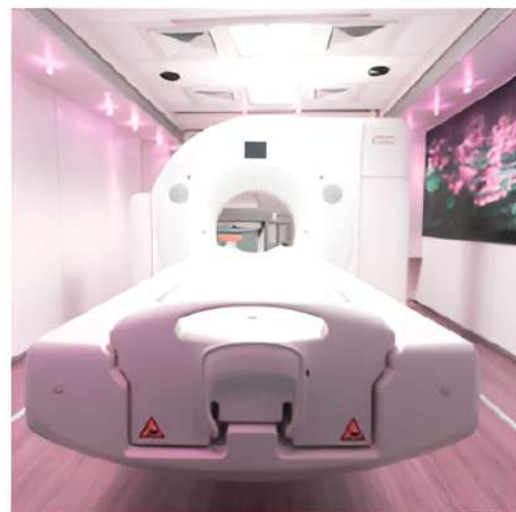


For mobile imaging setups, Sunrays offers PET/CT models that are compact, air-cooled, and optimized for stability in transit, such as the GE Discovery ST and Siemens Biograph Duo. These systems are designed to fit into smaller, mobile spaces, operating effectively without external chillers. With smaller footprints and slices under 16, these mobile-friendly options provide flexibility for clinics on the move, extending imaging services to underserved areas and broadening access to essential diagnostic technology.

ENSURING PET/CT SYSTEM QUALITY

Quality Assurance

STEPS TO ENSURE TOP PET/CT
QUALITY



When purchasing a pre-owned PET/CT from Sunrays Image Technology, ensuring quality is vital. Sunrays recommends a thorough inspection, involving either a personal assessment or an engineer, to understand the system's condition and environment. Reviewing service records like error logs and quality checks provides a history of maintenance. Accreditation, though handled by third parties, confirms quality standards, ensuring that your Sunrays PET/CT system meets all necessary compliance for optimal performance.





Where to find us

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PRECISION

EFFICIENCY

INNOVATION

RELIABILITY

QUALITY

SUPPORT



"Sunrays Image Technology: Affordable, precise, and sustainable PET/CT solutions, empowering healthcare with quality and reliability."