U.S. PET-CT Scanner Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

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Abstracts

U.S. PET-CT Scanner Market, valued at around USD 864 million in 2023, is expected to grow at a compound annual growth rate (CAGR) of 5.9% from 2024 to 2032. PET-CT scanners integrate positron emission tomography (PET) with computed tomography (CT), merging functional and anatomical imaging to enhance diagnostic accuracy. PET scans highlight cellular metabolic activity through radioactive tracers, while CT scans capture structural details, a combination especially beneficial for oncology, cardiology, and neurology. Technological advancements, particularly digital PET scanners with improved sensitivity and resolution, are key growth drivers. Continuous innovations help boost imaging quality and reduce scan times, aligning with the U.S. healthcare sector's focus on personalized medicine and precision diagnostics.

Given the country's significant cancer incidence rates—projected to reach over two million new cases in 2024—the demand for accurate diagnostic tools like PET-CT scanners remains strong. Collaborations between tech firms and healthcare providers are also advancing PET-CT technology, including the development of new radiotracers to target specific diseases more effectively. Digital PET-CT scanners have become the market's dominant segment, driven by high-resolution imaging and operational efficiencies such as shorter scan times and reduced radiation exposure. This shift is advantageous to healthcare facilities striving to manage costs while delivering high-quality care, further supporting digital systems' adoption.

The U.S. market is segmented by modality into fixed and mobile PET-CT scanners. Mobile units are experiencing notable demand, particularly in underserved regions, by making advanced diagnostic imaging accessible to a broader population. This mobile approach aligns with the growing focus on value-based, patient-centered healthcare, as

it enables cost-effective diagnostic services without the need for permanent facilities. Mobile units are also gaining popularity due to improved image quality, reduced scan times, and lower radiation exposure.

The market is segmented by slice count into high, medium, and low-slice scanners, with medium-slice systems (16-64 slices) leading in terms of market share. These scanners balance image quality and affordability, which appeals to smaller healthcare facilities. The oncology application segment, representing the largest share of the market, benefits from PET-CT's critical role in diagnosing and monitoring cancer. Hospitals remain the primary end-users, leveraging PET-CT scanners for their advanced diagnostic capabilities and potential to support personalized treatment.Regionally, the Northeast leads the market, driven by a concentration of healthcare institutions and research centers, which collectively fuel demand for PET-CT imaging. With the rising demand for early and accurate diagnosis, the PET-CT scanner market in the U.S. is positioned for robust growth across all segments.

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