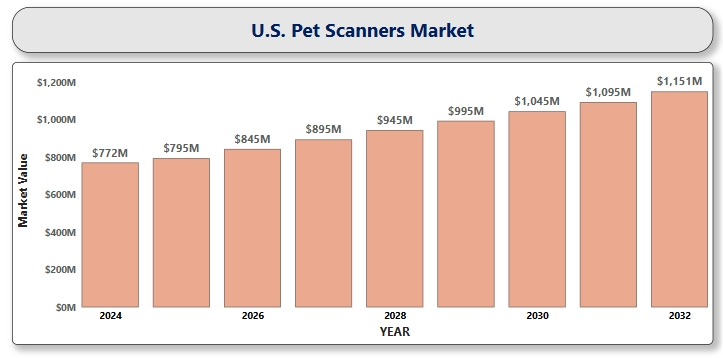
A close-up of hands holding a tablet and a pen

Description automatically generated**U.S. Pet Scanners Market**

According to Intelli, the U.S. Pet Scanners Market size was valued at USD 772.20 Million in 2024 and is projected to reach USD 1,151.75 Million by 2032, growing at a CAGR of 5.65% from 2025 to 2032.



Positron Emission Tomography (PET) scanners are at the forefront of modern medical imaging, providing life-saving insights with unmatched precision, helping transform diagnosis, treatment, and the future of personalized medicine. Unlike traditional imaging methods that primarily show anatomical structures, PET scans focus on the metabolic activity within the body. This sophisticated imaging system allows doctors to observe how tissues and organs are functioning in real time, and also detects diseases like cancer, neurological disorders, and heart conditions at their earliest, most treatable stages. Cells that are more active, such as cancer cells, take up more of the radioactive tracer, they stand out as bright spots on the scan. This ability to highlight abnormal metabolic activity makes PET scans particularly effective for detecting cancer, tracking tumor growth, assessing how well treatments are working, and diagnosing conditions such as heart disease and disorders of the brain.

**U.S. Pet Scanners Market Definition**

The U.S. Positron Emission Tomography scanners market encompasses the segment of the medical imaging industry focused on the production, distribution, and utilization of PET scanning devices. This market is driven by the growing demand for advanced diagnostic tools in oncology, cardiology, and neurology. Although high costs and regulatory hurdles remain key challenges, the U.S. PET scanners market is poised for steady growth, driven by a robust healthcare system, rising clinical adoption, and continuous advancements in radiotracer technologies.

**U.S. Pet Scanners Market Overview**

Merger and acquisition activity in the PET scanners market remains at a moderate level, with companies strategically pursuing deals to consolidate capabilities, gain access to advanced technologies, and strengthen their market position. Advancements in imaging technology and the integration of artificial intelligence (AI) are key drivers of growth in the PET scanners market, enhancing diagnostic accuracy and efficiency. A notable example is the introduction of the advanced 3-Ring Discovery IQ PET-CT scanner by House of Diagnostics (HOD) in June 2023 at its Green Park center. With this addition, HOD expanded A close-up of hands holding a tablet and a pen

Description automatically generatedits Positron Emission Tomography-Computed Tomography (PET-CT) services to seven locations across Delhi-NCR, reinforcing its commitment to providing state-of-the-art diagnostic solutions to the community. In addition, a growing trend in the diagnostic imaging sector is the increasing adoption of hybrid imaging modalities within nuclear medicine, offering enhanced accuracy and comprehensive diagnostic insights. Furthermore, the expanding application of PET imaging in breast cancer detection is emerging as a key driver of market growth. Market growth is expected to be further accelerated by strategic initiatives from leading industry players, coupled with favorable healthcare policies that support the adoption of advanced imaging technologies.

**U.S. Pet Scanners Market segmentation**

The U.S. PET scanners market can be segmented based on several key factors including Modality, Application, and End-User.

**U.S. Pet Scanners Market, By Modality**

* **PET-CT**
* **PET-MRI**

The U.S. PET scanners market, when segmented by modality, is primarily categorized into PET-CT and PET-MRI systems. PET-CT scanners dominate the market due to their widespread clinical use, combining metabolic imaging from PET with the anatomical precision of CT. This hybrid modality is especially valuable in oncology, where accurate tumor localization and staging are critical. For example, in June 2024, Siemens Healthineers unveiled its newest PET/CT scanner, the Biograph Trinion, during the annual meeting of the Society of Nuclear Medicine and Molecular Imaging. PET-MRI scanners, while relatively new to the imaging market, are rapidly gaining attention due to two key advantages including superior soft tissue contrast and lower radiation exposure. PET-MRI is particularly useful in neurology and pediatric imaging, offering detailed functional and anatomical information in a single scan. At the same time, because MRI does not use ionizing radiation (unlike CT), the combined PET-MRI scan results in significantly less radiation exposure for patients. This makes PET-MRI particularly beneficial for patients.

**U.S. Pet Scanners Market, By Application**

* **Oncology**
* **Cardiology**
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* **Others**

In the U.S. PET scanners market, the oncology segment plays a pivotal role, accounting for a significant portion of the market share. The increasing prevalence of cancer in the United States has been a primary driver for this dominance. Technological advancements have further bolstered the oncology segment. AI-driven algorithms now assist in image reconstruction, noise reduction, and lesion detection, leading to improved image quality and faster interpretation. According to the National Library of Medicine, PET scans are widely employed in staging cancers like lung, breast, and colorectal, enabling earlier and more accurate interventions that can greatly enhance patient outcomes. Cardilogy segment is experiencing notable growth, driven by the increasing prevalence of cardiovascular diseases (CVDs). PET imaging in cardiology is pivotal for assessing myocardial perfusion, evaluating coronary artery disease, and determining myocardial viability. Market analysis indicates that the cardiology segment is expected to grow at a compound annual growth rate (CAGR) of 5.8% over the forecast period, highlighting its increasing significance in the field of cardiovascular diagnostics. Moreover, PET imaging is increasingly utilized in neurology for diagnosing and monitoring neurological disorders such as Alzheimer's disease, Parkinson's disease, and epilepsy. The modality's ability to detect metabolic changes in the brain aids in early diagnosis and the assessment of disease progression. The neurology segment is identified as the fastest-growing application area, with a CAGR of 10%, attributed to the rising incidence of neurological conditions and advancements in imaging technologies.

**U.S. Pet Scanners Market, By End-User**

* **Hospitals**
* **Diagnostic Imaging Centers**
* **Ambulatory Surgical Centers (ASCs)**
* **Research Institutes**

The PET scanners market is segmented by end-user into four primary categories like Hospitals, Diagnostic Imaging Centers, Ambulatory Surgical Centers (ASCs), and Research Institutes. Hospital segment holds the largest market share, accounting for approximately 51.4% in 2024. Diagnostic Imaging Centers account for a substantial share of the market, providing dedicated and specialized imaging services. Their presence is growing steadily, A close-up of hands holding a tablet and a pen

Description automatically generateddriven by the rising demand for outpatient diagnostics and a strong focus on delivering cost-effective imaging alternatives to hospital-based care. Research Institutes play an important role in the PET scanners market, concentrating on clinical research and the innovation of advanced imaging techniques. Their contributions are essential for driving technological progress and broadening the scope of PET applications across diverse medical specialties.

**Key Players**

The “U.S. PET scanners market " study report will provide valuable insight emphasizing the U.S. market. The major players in the market Canon Medical Systems, Koninklijke Phillips N.V., Siemens Healthineers, Bruker Corporation, CMR Naviscan, Radiology Oncology Systems Inc., Positron Corporation, Neusoft Medical Systems Co., Ltd., AGFA HealthCare, PETsys Electronics SA, GE HealthCare, Avid Radiopharmaceuticals, Mediso USA, MinFound Medical Systems USA, Biosensors International, among others. Our market analysis also entails a section solely dedicated to such major players wherein our analysts provide an insight into the financial statements of all the major players, along with product benchmarking and SWOT analysis.

**Key Developments**

* In 2025, Telix Pharmaceuticals received FDA approval for Gozellix®, a gallium-based PET imaging agent used to detect PSMA-positive lesions in prostate cancer. Its longer shelf life makes it more practical for clinical use and easier for patients to access.
* In September 2024, GE HealthCare’s Flyrcado™, a PET imaging agent for heart disease, was approved by the FDA to help detect coronary artery disease.
* In June 2024, Siemens Healthineers received FDA approval for the Biograph Trinion, a powerful and energy-efficient PET/CT scanner. Designed for use in oncology, cardiology, and neurology, it offers versatile clinical capabilities while keeping long-term operational costs low and allowing easy scalability for different healthcare settings.

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Description automatically generated**Market Attractiveness**

The image of market attractiveness provided further helps to get information about the region leading in the U.S. PET scanners market. We cover the major impacting factors driving the industry growth in the given region.

**Porter’s Five Forces**

The image provided would further help to get information about Porter's five forces framework providing a blueprint for understanding the behavior of competitors and a player's strategic positioning in the respective industry. Porter's five forces model can be used to assess the competitive landscape in the U.S. PET scanners market, gauge the attractiveness of a particular sector, and assess investment possibilities.

A close-up of hands holding a tablet and a pen

Description automatically generatedTABLE OF CONTENT

1 **INTRODUCTION OF U.S. PET SCANNERS MARKET**

* 1. Overview of the market
  2. Scope of report
  3. Assumptions

1. **EXECUTIVE SUMMARY**
2. **RESEARCH METHODOLOGY**
   1. Data Mining
   2. Validation
   3. Primary Interviews
   4. List of Data sources
3. **U.S. PET SCANNERS MARKET OUTLOOK**
   1. Overview
   2. Market Dynamics
      1. Drivers
      2. Restrains
      3. Opportunities
      4. Trends
   3. Portes Five FORCE Model
   4. Value Chain Analysis

**5 U.S. PET SCANNERS MARKET, BY MODALITY**

5.1 Overview

5.2 PET-CT

A close-up of hands holding a tablet and a pen

Description automatically generated5.3 PET-MRI

**6 U.S. PET SCANNERS MARKET, BY APPLICATION**

6.1 Overview

6.2 Oncology

6.3 Cardiology

6.4 Neurology

6.5 Others

**7 U.S. PET SCANNERS MARKET, BY END-USER**

7.1 Overview

7.2 Hospitals

7.3 Diagnostic Imaging Centers

7.4 Ambulatory Surgical Centers (ASCs)

7.5 Research Institutes

1. **U.S. PET SCANNERS MARKET COMPETITIVE LANDSCAPE**
   1. Overview
   2. Company Market Ranking
   3. Key Developments Strategies
2. **COMPANY PROFILES**

**9.1 Canon Medical Systems**

* + 1. Overview
    2. A close-up of hands holding a tablet and a pen

       Description automatically generatedFinancial Performance
    3. Product Outlook
    4. Key developments
  1. **Koninklijke Phillips N.V.**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  2. **Siemens Healthineers**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  3. **Bruker Corporation**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  4. **CMR Naviscan**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  5. **Radiology Oncology Systems Inc.**
     1. Overview
     2. Financial Performance
     3. A close-up of hands holding a tablet and a pen

        Description automatically generatedProduct Outlook
     4. Key developments
  6. **Positron Corporation**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  7. **Neusoft Medical Systems Co., Ltd.**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments

* 1. **AGFA HealthCare**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  2. **PETsys Electronics SA**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  3. **GE HealthCare**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  4. **Avid Radiopharmaceuticals**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  5. **Mediso USA**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  6. **MinFound Medical Systems USA**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments
  7. **Biosensors International**
     1. Overview
     2. Financial Performance
     3. Product Outlook
     4. Key developments

1. **KEY DEVELOPMENTS**
   1. Product Launches/Developments
   2. Mergers and Acquisitions
   3. Business Expansions
   4. Partnerships and Collaborations
2. **Appendix**

11.1 Related Research