

## **Global Nuclear Imaging Equipment Market Report and Forecast 2023-2031**

Market Report | 2023-07-12 | 140 pages | EMR Inc.

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### **Report description:**

Global Nuclear Imaging Equipment Market Report and Forecast 2023-2031

Global Nuclear Imaging Equipment Market Outlook

The global nuclear imaging equipment market value was USD 2.8 billion in 2022, driven by the increasing prevalence of chronic diseases across the globe. The market size is anticipated to grow at a CAGR of 5.62% during the forecast period of 2023-2031 to achieve a value of USD 4.5 billion by 2031.

Nuclear Imaging Equipment: Introduction

Nuclear imaging equipment refers to a range of medical devices used in nuclear medicine procedures for diagnostic imaging and treatment purposes. These devices utilize radioactive substances known as radiotracers or radiopharmaceuticals to create images of various organs and body functions. Nuclear imaging techniques include single-photon emission computed tomography (SPECT) and positron emission tomography (PET). The introduction of nuclear imaging equipment has revolutionized the field of medical imaging by providing valuable insights into the functioning and metabolism of organs at a molecular level. These imaging techniques are particularly useful in diagnosing and monitoring various conditions such as cancer, cardiovascular diseases, neurological disorders, and skeletal abnormalities.

Key Trends in the Global Nuclear Imaging Equipment Market

Key trends in the nuclear imaging equipment market include advancements in technology, such as the development of hybrid imaging systems that combine PET and CT (computed tomography) or SPECT and CT capabilities. These hybrid systems allow for more precise and accurate imaging, facilitating better diagnosis and treatment planning. Another trend is the integration of artificial intelligence (AI) and machine learning algorithms into nuclear imaging equipment. AI algorithms can assist in image interpretation, improving the accuracy of diagnoses and reducing the time required for analysis. AI also enables automated image processing and reconstruction, enhancing workflow efficiency. There is also a growing focus on radiation dose reduction in nuclear imaging. Manufacturers are developing techniques and technologies to minimize radiation exposure to patients while maintaining image quality. This includes the use of low-dose imaging protocols, optimized radiotracer dosing, and advanced reconstruction algorithms.

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technologies to minimize radiation exposure to patients while maintaining image quality. This includes the use of low-dose imaging protocols, optimized radiotracer dosing, and advanced reconstruction algorithms. Emerging economies, such as China, India, and Brazil, are witnessing significant growth in the healthcare sector and are increasing their investments in medical imaging infrastructure. The rising healthcare expenditure, improving healthcare facilities, and growing awareness about advanced diagnostic techniques drive the demand for nuclear imaging equipment in these markets. Manufacturers are targeting these regions to expand their customer base and tap into the growing opportunities.

#### Global Nuclear Imaging Equipment Market Segmentations

##### Market Breakup by Type

- Gamma Camera Imaging Systems
- SPECT Imaging Systems
- Planar Scintigraphy Imaging Systems
- PET Imaging Systems

##### Market Breakup by Applications

- Oncology
- Cardiology
- Neurology
- Others
- Urology
- Orthopedics
- Gastroenterology
- Thyroid-Related Disorders
- Others

##### Market Breakup by End User

- Hospitals and Clinics
- Diagnostic Imaging Centers
- Specialty Clinics
- Others

##### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Global Nuclear Imaging Equipment Market Scenario

The global market is expected to witness significant growth in the coming years. Several factors contribute to the positive market outlook, including the increasing prevalence of chronic diseases such as cancer and cardiovascular disorders, the growing demand for non-invasive diagnostic techniques, and advancements in imaging technology.

One key driver of market growth is the rising incidence of cancer worldwide. Nuclear imaging plays a crucial role in cancer diagnosis, staging, and treatment planning. With the increasing adoption of nuclear imaging techniques, such as PET/CT and SPECT/CT, healthcare providers can obtain more accurate and detailed information about tumour location, size, and activity, leading to improved patient outcomes.

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Cardiovascular diseases are another major driver for the nuclear imaging equipment market. Nuclear imaging techniques provide valuable insights into heart function, blood flow, and myocardial perfusion, aiding in the diagnosis and management of various cardiac conditions. The rising prevalence of heart diseases, coupled with the growing aging population, contributes to the demand for nuclear imaging equipment in the cardiology field.

Geographically, North America and Europe dominate the nuclear imaging equipment market due to well-established healthcare infrastructure, higher healthcare expenditure, and early adoption of advanced imaging technologies. However, emerging economies in Asia Pacific, Latin America, and the Middle East are expected to witness significant market growth due to improving healthcare infrastructure, increasing investments in healthcare, and rising awareness about the benefits of nuclear imaging.

#### Global Nuclear Imaging Equipment Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, clinical trials analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:

- Siemens Healthineers AG
- GE Healthcare
- Koninklijke Philips N.V.
- Canon Medical Systems Corporation
- Star Equity Holdings, Inc.
- SurgicEye GmbH
- Mediso Ltd.
- Rigaku Corporation (MILabs B.V.)
- MR Solutions Ltd.
- DDD - Diagnostics A/S
- Segami Corporation
- Mirion Technologies (Capintec), Inc.
- Positron Corporation
- Neusoft Medical Systems Co., Ltd.

\*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

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