

Dose Calibrator Market to Worth USD 2.1 Billion by 2032, Driven by Technological Innovations

The global dose calibrator market is projected to grow at a CAGR of 3.9%, fueled by advancements in nuclear medicine and medical imaging

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According to Research by SNS Insider, The [Dose Calibrator Market](#) was valued at USD 1.5 billion in 2023 and is projected to reach USD 2.1 billion by 2032, growing at a CAGR of 3.9% over the forecast period from 2024 to 2032.

The growth of this market is primarily driven by the increasing application of dose calibrators in nuclear medicine, advancements in imaging technologies, and a rising emphasis on accurate and precise radiopharmaceutical measurements.

Prominent companies in the dose calibrator market include:

- VacuTec
- Esente Healthcare
- Radcal
- Metrohm
- Nuclemed
- Pinestar Technology
- Siemens Healthineers
- Capintec
- Thermo Fisher Scientific
- Biodex Atomlab

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By Type, PET Nuclides held the largest market share of 66.95% in 2023, dominating the segment.



PET scanning in diagnostics, such as oncology, neurology, and cardiology is increasing its applications. Consequently, demand for PET-based radiopharmaceuticals will grow, because it becomes a source for the earlier diagnosis of disease conditions and designing personal treatment for individual patients. Accurate measurements by PET nuclides assure a high accuracy dosing with potential efficacy and safe outcome of treatment. On the other hand, the SPECT nuclides segment is growing at the fastest rate, as advancements in hybrid imaging and cost-effective diagnostic techniques increase the demand for SPECT imaging applications.

By Application, the Department of Nuclear Medicine segment accounted for the highest market share of around 48.23% in 2023.

This is because more nuclear medicine departments are being established in hospitals and diagnostic centers, which require dose calibrators for accurate measurement and administration of radiopharmaceuticals. Increasing chronic diseases such as cancer and cardiovascular disorders have increased the demand for nuclear imaging, which further increases the adoption of dose calibrators in medical institutions. The radiopharmacy application is emerging as the fastest-growing application due to the increasing production and distribution of radiopharmaceuticals for diagnosis and treatment.

By End Use, Hospitals remained the largest end-user segment in the dose calibrator market, holding the highest market share in 2023.

This can be mainly attributed to their well-established nuclear medicine departments and the availability of advanced imaging technologies. Skilled professionals trained in the handling of radiopharmaceuticals add to the cause. The rise in chronic diseases and the exact dosing requirement of radiopharmaceuticals also make hospitals the first choice for using dose calibrators.

North America dominated the dose calibrator market in 2023, capturing the highest revenue share of more than 42.40%.

The region's leadership is being driven by the advanced healthcare infrastructure, high adoption rate of nuclear medicine technologies, and strong presence of key market players. Further, increasing investments in research and development, along with a growing number of PET and SPECT imaging procedures, are contributing to market expansion. The Asia-Pacific region is the fastest-growing market for dose calibrators, mainly because of rapid healthcare advancements, increasing government investments in nuclear medicine, and a rising prevalence of chronic diseases requiring nuclear imaging solutions.

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