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Dual Energy X-ray Absorptiometry Market Forecasts to 2034 – Global Analysis By Type (Portable and Standalone), By Technology (Advanced Software, Artificial Intelligence (AI) and Other Technologies), Application, End User and By Geography

https://marketpublishers.com/r/D569111272B9EN.html
Date: May 2026
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: D569111272B9EN

Abstracts

According to Stratistics MRC, the Global Dual Energy X-ray Absorptiometry Market is accounted for $824.6 million in 2026 and is expected to reach $1767.6 million by 2034 growing at a CAGR of 10% during the forecast period. Dual-energy X-ray absorptiometry is a medical imaging technique that measures bone mineral density (BMD) and body composition. Using two X-ray energy levels, it quantifies the amount of bone, fat and lean tissue in specific body regions, aiding in diagnosing osteoporosis, assessing fracture risk, and evaluating body composition for medical or research purposes with high precision and low radiation exposure.

According to WHO, non-communicable diseases and chronic diseases account for around 41 Million deaths globally equivalent to 74%. According to IOF research, the number of individuals in Asia with osteoporosis and osteopenia is anticipated to climb to 286.6 million by 2020 and 533.3 million by 2050.

Market Dynamics:

Driver:

Increasing prevalence of osteoporosis and bone-related disorders

The increasing prevalence of osteoporosis and bone-related disorders acts as a significant driver in the dual-energy X-ray absorptiometry market. With an aging

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population and sedentary lifestyles, osteoporosis incidence rises, necessitating early diagnosis and monitoring. DEXA's precision in assessing bone mineral density aids in the early detection of osteoporosis, enabling timely intervention to mitigate fracture risks. Additionally, the expanding awareness and proactive measures to manage bone health contribute to the growing demand for DEXA systems globally, driving market growth.

Restraint:

High cost of DEXA equipment and maintenance

The initial investment for acquiring DEXA machines is substantial, deterring smaller healthcare facilities or clinics from adopting this technology. Additionally, ongoing expenses related to equipment maintenance, calibration and software updates further contribute to the overall cost of ownership, limiting accessibility and adoption, particularly for healthcare institutions with constrained budgets, thereby impeding market growth.

Opportunity:

Growing awareness of bone health and preventative measures

Heightened consciousness regarding osteoporosis, fractures and related bone disorders prompts individuals to seek early diagnostic methods. This awareness fosters proactive healthcare approaches, encouraging regular screenings and bone density assessments. Consequently, healthcare providers and diagnostic centers witness heightened demand for DEXA scans, driving market growth as more people prioritize preventive measures and early detection to maintain optimal bone health.

Threat:

Radiation exposure concerns and regulatory constraints

Radiation exposure concerns and regulatory constraints pose a significant threat to the market. While DEXA scans generally involve low radiation doses, concerns persist regarding cumulative exposure, especially in frequent screenings or for sensitive populations like pregnant women. Stringent regulations on radiation safety further impact device usage and accessibility. Compliance with strict protocols, radiation safety measures, and training requirements adds complexity and cost to DEXA

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implementation. Moreover, evolving regulations may demand continuous technological advancements to reduce radiation while maintaining diagnostic accuracy.

Covid-19 Impact:

The COVID-19 pandemic disrupted the market by causing delays in non-essential medical procedures, including bone density scans. Clinic closures, reduced patient visits and diverted healthcare resources toward pandemic response limited DEXA utilization. Supply chain disruptions affected equipment manufacturing and distribution, impacting market growth. Moreover, patient concerns about visiting healthcare facilities and prioritizing essential medical needs over preventive screenings further contributed to the market disruption during the pandemic.

The fracture management segment is expected to be the largest during the forecast period

The fracture management segment is anticipated to lead during the forecast period due to rising cases of osteoporosis-related fractures, especially among aging populations. Dual Energy X-ray Absorptiometry plays a crucial role in assessing bone health and fracture risk and guiding fracture management strategies and treatments. With a growing emphasis on preventive healthcare and the need for early detection of bone-related issues, the fracture management segment is projected to witness substantial growth within the market.

The hospitals & clinics segment is expected to have the highest CAGR during the forecast period

The hospitals and clinics segment is anticipated to exhibit the highest growth rate during the forecast period due to increased diagnostic needs for osteoporosis and metabolic disorders. Hospitals and clinics serve as primary healthcare centers, facilitating patient access to DEXA scans for bone health assessments. Moreover, these facilities offer comprehensive healthcare services, making them pivotal for bone density screenings and body composition analyses, which are essential for various medical conditions, driving the segment's growth.

Region with largest share:

Asia Pacific is poised to lead in market share due to the region's expanding geriatric population, rising healthcare infrastructure and increasing prevalence of osteoporosis

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and related conditions, which drive the demand for Dual Energy X-ray Absorptiometry (DEXA) systems. Additionally, growing healthcare expenditure, technological advancements and supportive government initiatives in countries like China, India and Japan contribute to the region's dominance in the DEXA market, fostering substantial growth opportunities.

Region with highest CAGR:

The North American region is poised for substantial growth owing to increasing healthcare expenditure, a rising geriatric population susceptible to osteoporosis and a growing emphasis on preventive healthcare. Additionally, technological advancements in healthcare infrastructure and the presence of key market players contribute to the region's growth potential. Moreover, heightened awareness about bone health and a strong focus on early diagnosis and treatment further drive the adoption of Dual Energy X-ray Absorptiometry systems in North America.

Key players in the market

Some of the key players in Dual Energy X-Ray Absorptiometry Market include Aurora Spine, BeamMed Ltd., Demetech AB, Diagnostic Medical Systems Group, Echolight S.p.A., Eurotec Medical Systems, Furuno Electric Co., Ltd., GE Healthcare, Hologic, Inc., Lone Oak Medical Technologies LLC, Medilink International, Medimaps Group, Osteometer Meditech Inc., OsteoSys Co., Ltd., SCANCO Medical AG, Shenzhen X-ray Equipment Co., Ltd. and Swissray Global Healthcare Holding Ltd.

Key Developments:

In September 2023, Medimaps Group, a Swiss/Global med-tech company specializing in image-processing software with AI capabilities for assessing bone health, announced today it received the Medical Device Regulation (MDR) certification from its notified body BSI (CE 2797) for its management system and product portfolio.

In February 2022, Aurora Spine partnered with Echolight Medical, the manufacturer of the radiation-free EchoS portable densitometer utilized to assess the quality of the software platform and the bone mineral density (BMD) in the patients affected. The two companies decided to advertise one other's products to their respective clients and prospects as part of the Aurora DEXA Platform.

Types Covered:

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Portable

Standalone

Technologies Covered:

Advanced Software

Artificial Intelligence (AI)

Digital Radiography

Flat-panel Detectors

Low-dose Imaging Protocols

•Other Technologies

Applications Covered:

Osteoporosis

Bone Densitometry

Fracture Management

Body Composition Analysis

Other Applications

End Users Covered:

Diagnostic Centers

Hospitals & Clinics

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- Specialty Centers
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia

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New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends

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- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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