

# Dual-energy X-ray Absorptiometry Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025-2034

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## Abstracts

The Global Dual-energy X-ray Absorptiometry Market was valued at USD 656.7 million in 2024 and is projected to expand at a CAGR of 8.1% from 2025 to 2034. DEXA is a widely used medical imaging technology designed to assess bone mineral density (BMD) and body composition. Its primary application is in diagnosing osteoporosis and tracking bone health over time. The rising prevalence of osteoporosis and an aging global population are key drivers behind the increasing demand for these systems. With a higher risk of fractures and reduced BMD among older adults, the need for early detection and continuous monitoring is growing. DEXA systems are becoming more prevalent in hospitals, diagnostic centers, and specialty clinics due to their precision in evaluating fracture risks and measuring bone health. The emphasis on preventive healthcare and advancements in medical imaging technologies are further accelerating market growth.

The market is divided into total axial and peripheral DEXA bone densitometers. In 2024, the axial DEXA segment led the market, generating USD 355.2 million in revenue. This segment is favored for its high accuracy in diagnosing osteoporosis and assessing BMD in crucial skeletal regions like the hip and spine. Compared to peripheral systems, axial DEXA provides superior precision in detecting early signs of osteoporosis and monitoring treatment progress. Its extensive use in sports medicine and obesity management also contributes to its market dominance.

Another segmentation of the market is based on product type, which includes standalone and portable DEXA systems. The standalone segment accounted for 59.4% of the market share in 2024, with a projected value of USD 865.5 million by 2034. These systems are primarily installed in hospitals, diagnostic centers, and research institutions,

where they offer high imaging strength and accuracy in bone density assessment. Their ability to provide precise diagnostics and support metabolic health evaluations makes them a preferred choice in medical facilities. Leading industry players are integrating low-dose radiation features to enhance patient safety without compromising diagnostic efficiency.

Regarding applications, the DEXA market encompasses osteoporosis diagnosis, body composition analysis, fracture management, bone densitometry, and other medical uses. The osteoporosis segment generated USD 238 million in 2024, maintaining a leading position due to the increasing prevalence of the disease. As bone health awareness grows, more patients and healthcare providers are prioritizing early detection and routine assessments.

Hospitals and clinics emerged as the top end-use segment, capturing 43.5% of the market share in 2024. These institutions serve as primary healthcare providers, conducting DEXA scans for accurate osteoporosis diagnosis and patient monitoring. The combination of advanced medical equipment and skilled professionals in these facilities contributes to the widespread adoption of these systems.

The U.S. market has seen substantial revenue growth, reaching USD 212.6 million in 2023, and is projected to hit USD 489.2 million by 2034. High osteoporosis prevalence and insurance coverage for bone density tests are key factors fueling market expansion.

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