

Pediatric Imaging Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Pediatric Imaging Market was valued at USD 8.7 billion in 2024 and is projected to grow at a CAGR of 7.7% from 2025 to 2034. Pediatric imaging plays a crucial role in diagnosing and assessing medical conditions in children, from infancy through adolescence. Advances in medical imaging technology have revolutionized pediatric radiology, enhancing safety, accuracy, and efficiency while minimizing risks associated with radiation exposure. Cutting-edge innovations such as low-radiation imaging, AI-driven diagnostics, and 3D imaging techniques are significantly improving patient outcomes, fostering growth in this dynamic sector. The increasing prevalence of pediatric disorders, rising awareness among healthcare professionals, and continuous developments in imaging modalities are further propelling market expansion.

Additionally, the integration of artificial intelligence in pediatric imaging is streamlining diagnostic processes, allowing for faster and more precise interpretations, thereby improving clinical decision-making. The growing emphasis on non-invasive diagnostic procedures and the increasing number of pediatric specialty hospitals worldwide are also fueling the demand for advanced imaging solutions.

The market is segmented by imaging modalities, including ultrasound, magnetic resonance imaging (MRI), computed tomography (CT), X-ray, and others. MRI held a 36.5% market share in 2024, establishing itself as a preferred imaging modality due to its ability to provide high-resolution images without exposing young patients to ionizing radiation. Its effectiveness in diagnosing neurological, musculoskeletal, and soft tissue conditions makes it indispensable in pediatric healthcare. Recent advancements, such as noise reduction features, faster scanning capabilities, and child-friendly designs, have made MRI procedures more accessible and less stressful for young patients, leading to increased adoption across healthcare facilities.

Pediatric imaging is also categorized by application, with key areas including neurology, orthopedics, cardiology, oncology, and gastroenterology. The orthopedics segment held

the largest share at 31.4% in 2024, driven by the rising incidence of musculoskeletal disorders and injuries in children. The demand for non-invasive diagnostic solutions is escalating, and innovations such as 3D imaging, cone-beam CT, and digital radiography are playing a pivotal role in enhancing the accuracy and efficiency of orthopedic diagnostics. These technological advancements are transforming the way pediatric orthopedic conditions are diagnosed and treated, further bolstering market growth.

The U.S. Pediatric Imaging Market was valued at USD 3 billion in 2024 and is anticipated to grow at a CAGR of 7.6% from 2025 to 2034. The increasing prevalence of pediatric health conditions, including congenital heart defects and neurological disorders, is fueling demand for advanced imaging technologies. Portable ultrasound machines and low-radiation CT scans are gaining traction due to their ability to provide high-quality imaging while ensuring patient safety and comfort. The continued emphasis on early diagnosis and the expansion of pediatric healthcare infrastructure are key factors contributing to the strong growth of pediatric imaging services in the U.S.

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