

Medical Imaging Devices – A Global Market Overview

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Abstracts

Global Medical Imaging Devices Market Trends and Outlook

Medical imaging is a technique used to visualize the inside of the body for clinical evaluation, diagnosis, and medical treatment, revealing internal structures. It provides insights into organ and tissue functions, aiding in the diagnosis and treatment of diseases. These technologies create a reference database of normal anatomy to find irregularities. Key imaging modalities include X-ray, ultrasound, magnetic resonance imaging (MRI), computed tomography (CT), positron emission tomography (PET), nuclear imaging, and picture archiving and communication systems (PACS). X-ray is commonly used for diagnosing bone fractures and conducting chest examinations, whereas MRI delivers detailed images of soft tissues such as the brain. Ultrasound is used in obstetrics and evaluations of soft tissues. CT scans provide cross-sectional images for detailed body views, and PET scans evaluate organ functionality, particularly in cancer care. Nuclear imaging methods, including SPECT and scintigraphy, visualize the activity of organs. PACS functions as a system for digital storage and sharing of medical images. Medical imaging not only assists in diagnosing conditions but also aids in guiding medical procedures, facilitating surgical planning, and tracking treatment progress. It is essential in personalized medicine, enhancing patient outcomes via accurate and non-invasive assessments. With its non-invasive approach, medical imaging minimizes patient risk while promoting more precise treatment decisions and improved overall care.

Global Medical Imaging Devices market is estimated at US\$43.7 billion in 2024 and projected to post a CAGR of 5.7% between 2024 and 2030 to reach US\$61 billion in 2030. The growth of the Medical Imaging Devices market is driven by advancements in technology and the rising need for early diagnosis and effective management of chronic diseases. Increased healthcare spending, combined with advancements in imaging technologies such as AI integration, hybrid imaging, and portable devices, is fueling

market growth. An increasing occurrence of chronic diseases like cancer, cardiovascular issues, and neurological disorders requires more frequent imaging tests, resulting in a greater demand for diagnostic tools. Furthermore, the aging population, which often needs ongoing medical imaging to monitor health conditions, also plays a significant role in the market's growth.

Innovations in imaging methods like 3D and 4D imaging and AI-supported technologies enhance diagnostic precision and shorten turnaround times. In addition, the rising emphasis on personalized medicine and the incorporation of medical imaging with electronic health records (EHRs) improve patient care. Developments such as mobile imaging units, wearable technology, and AI-driven systems are enhancing accessibility and affordability, making medical imaging more user-friendly. Partnerships between healthcare providers and technology developers, coupled with increasing investments in research and development, are expected to drive further growth in the medical imaging market.

Medical Imaging Devices Regional Market Analysis

North American Medical Imaging Devices market dominates the global market with an estimated share of 36.5% in 2024 due to factors such as greater use in primary care, substantial healthcare expenditure, and effective reimbursement policies. The increasing incidence of chronic conditions, including cancer, cardiovascular diseases, and neurological disorders, drives the need for imaging technologies. Ongoing technological innovations, along with a significant elderly population, are projected to maintain North America's dominance in the market. In contrast, the Asia Pacific region is expected to witness the fastest growth rate, with a CAGR of 6.9% throughout the forecast period 2024-2030, fueled by population growth, growing chronic disease rates, and improvements in healthcare infrastructure. This region benefits from advantageous reimbursement policies, a growing elderly demographic, and the development of diagnostic centers. Furthermore, the rise in domestic manufacturing and increased healthcare expenditure in emerging markets like China and India is further enhancing the demand for Medical Imaging Devices.

Medical Imaging Devices Market Analysis by Product

Based on product, the Medical Imaging Devices market is segmented into X-ray, ultrasound, magnetic resonance imaging (MRI), computed tomography (CT), positron emission tomography (PET), nuclear imaging, and picture archiving and communication systems (PACS). Among them, the X-ray segment accounted for the largest market

share of 28.9% in 2024, propelled by its extensive application in image-guided surgical procedures, particularly in interventional X-ray systems such as C-arms. Developments in mini C-arms, digital radiography, and flat panel detectors have further increased demand. X-ray technology is available even in rural locations and plays a critical role in diagnosing injuries and formulating treatment strategies. Conversely, the ultrasound segment is projected to record the fastest growth at a CAGR of 6.5% from 2024 to 2030, supported by its increasing applications in gynecology, cardiology, and abdominal conditions. Advances in technology and the rising demand for early detection of chronic illnesses, including those related to the heart and breast, are fueling the swift growth of this segment.

Medical Imaging Devices Market Analysis by Application

Based on application, the market is segmented into orthopedics, oncology, cardiology, neurology, obstetrics/gynecology, gastroenterology, and other applications. In 2024, the orthopedics segment led the application market, capturing a 27% share, fueled by the increasing prevalence of trauma, sports-related injuries, and orthopedic conditions, especially in older adults. Progress in medical imaging technologies, such as X-rays, CT scans, MRIs, and ultrasounds, has enhanced the accuracy of diagnoses and treatment planning for ailments like arthritis, osteoporosis, and fractures. The demand for orthopedic imaging has also surged due to the growing trend of minimally invasive procedures and joint replacement surgeries. On the other hand, the oncology segment is expected to witness rapid growth with a CAGR of 6.6% during the forecast period 2024-2030 due to the rising global cancer rates and an increased emphasis on early detection. This growth can also be attributed to better healthcare access in emerging economies and advancements in imaging technologies, including CT, MRI, and PET/CT scans. The introduction of innovative techniques, such as Pretargeted Radioimmunotherapy (PRIT), which shows potential in treating advanced epithelial ovarian cancer with minimal side effects, is expected to drive further demand for oncology imaging.

Medical Imaging Devices Market Analysis by End-User

Based on end-users, the market is segmented into hospitals, diagnostic imaging centers, specialty clinics, and other end-users. The hospitals segment held the largest market share of 48.7% in 2024, as these facilities are significant in adopting advanced medical imaging technologies like X-ray, MRI, CT, and ultrasound for patient diagnosis and treatment. Hospitals invest heavily in imaging equipment to enhance diagnostic accuracy and improve patient outcomes, driven by the aging population and the rising

prevalence of chronic diseases. Their comprehensive services and access to advanced technology contribute to this dominance. Meanwhile, the diagnostic imaging centers segment is projected to register the fastest CAGR of 6.4% during the forecasted period 2024-2030 due to the growing demand for specialized services, outsourcing imaging functions, and rising awareness of chronic diseases. These centers are integrating technologies such as AI to enhance imaging capabilities, further supporting growth in procedures such as CT and MRI for diagnosis and treatment, including cancer care and minimally invasive surgeries.

Medical Imaging Devices Market Report Scope

This global report on Medical Imaging Devices analyzes the global and regional markets based on product, application, and end-users for the period 2021-2030 with projections from 2024 to 2030 in terms of value in US\$. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2021-2023

Base Year: 2024

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 20+

Medical Imaging Devices Market by Geographic Region

North America (The United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Italy, Spain, and Rest of Europe)

Asia-Pacific (Japan, China, India, South Korea, and Rest of Asia-Pacific)

South America (Brazil, Argentina, and Rest of South America)

Rest of World

Medical Imaging Devices Market by Product

X-ray

Ultrasound

Magnetic Resonance Imaging (MRI)

Computed Tomography (CT)

Positron Emission Tomography (PET)

Nuclear Imaging

Picture Archiving and Communication Systems (PACS)

Medical Imaging Devices Market by Application

Orthopedics

Oncology

Cardiology

Neurology

Obstetrics/Gynecology

Gastroenterology

Other Applications (Including Urology, Pulmonology, Ophthalmology, Pediatrics, Trauma, and others)

Medical Imaging Devices Market by End-user

Hospitals

Diagnostic Imaging Centers

Specialty Clinics

Other End-Users (Including Nursing Homes, Outpatient Facilities, and Academic Institutes and Research Organizations)

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Positron Emission Tomography (PET)

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Picture Archiving and Communication Systems (PACS)

Medical Imaging Devices Applications

Orthopedics

Oncology

Cardiology

Neurology

Obstetrics/Gynecology

Gastroenterology

Other Applications (Including Urology, Pulmonology, Ophthalmology, Pediatrics, Trauma, and others)

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Analogic Corporation

Boston Scientific Corporation

Canon Medical Systems Corporation

Carestream Health, Inc

Cubresa Inc.

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Fujifilm Corporation
GE Healthcare
Hitachi Medical Corporation
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