

Medical Imaging Market Report by Product (CT Scanners, X-Ray Imaging Systems, MRI Systems, Ultrasound Imaging Systems, Nuclear Imaging Systems, Mammography Systems), Application (Obstetrics and Gynecology Health, Orthopedics and Musculoskeletal, Neuro and Spine, Cardiovascular and Thoracic, General Imaging, Breast Health, and Others), End User (Hospitals, Diagnostic Centers, Academic Institutes and Research Organizations), and Region 2026-2034

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Report description:

The global medical imaging market size reached USD 46.8 Billion in 2025. Looking forward, IMARC Group expects the market to reach USD 71.2 Billion by 2034, exhibiting a growth rate (CAGR) of 4.78% during 2026-2034. North America represents the largest region driven by advancements in artificial intelligence (AI), increased adoption of advanced imaging technologies, and rising demand for early disease diagnosis. The market is experiencing robust growth, driven by rapid technological advancements, the rising prevalence of chronic diseases, increasing demand for early diagnosis, expanding healthcare infrastructure and the growing geriatric population.

Market Size & Forecasts:

- [] Medical imaging market was valued at USD 46.8 Billion in 2025.
- [] The market is projected to reach USD 71.2 Billion by 2034, at a CAGR of 4.78% from 2026-2034.

Dominant Segments:

- [] Product: X-Ray imaging systems hold the biggest market share as they provide quick, non-invasive diagnostics, enabling the detection of fractures, infections, and abnormalities.

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-□Application: Cardiovascular and thoracic accounts for the majority of the market share owing to the heightened occurrence of heart conditions, lung diseases, and vascular abnormalities.

-□End User: Hospitals represent the largest segment as they employ medical imaging systems for proper diagnosis of patients.

-□Region: North America leads the market driven by improvements in AI, increased adoption of advanced imaging technologies, and rising demand for early disease diagnosis among the masses.

Key Players:

-□The leading companies in the market include Canon Medical Systems Corporation, Carestream Health, Cubresa Inc., Esaote SpA, FUJIFILM Sonosite, Inc., GE HealthCare, Hitachi High-Tech Corporation, Konica Minolta, Inc., Koninklijke Philips N.V., Samsung Healthcare, Shenzhen Mindray Bio-Medical Electronics Co., Ltd, Siemens Healthineers AG, etc.

Key Drivers of Market Growth:

-□Technological Inroads: Ongoing innovations in imaging technologies, including AI integration and high-resolution imaging systems, are increasing diagnostic precision and effectiveness in medical imaging.

-□Increasing Healthcare Demand: Increasing demand for the early detection of diseases, particularly in oncology and cardiology, is fueling the uptake of advanced imaging systems.

-□Aging Population: Growing numbers of seniors are driving the demand for medical imaging services for age-related health issues.

-□Government Initiatives: Healthcare infrastructure and advances in medical technology are backed by governments through funding and policy developments, driving the uptake of medical imaging solutions.

-□Increased Healthcare Access: Enhancing access to healthcare services in emerging markets is catalyzing the demand for medical imaging technologies.

Future Outlook:

-□Strong Growth Outlook: The medical imaging business is likely to keep growing with advancements in imaging modalities, artificial intelligence, and the need for personalized medicine.

-□Market Evolution: The industry is moving away from conventional imaging technologies toward more sophisticated procedures, allowing for wider use in a broad range of medical specialties and geographies.

Medical Imaging Market Trends:

Technological Advancements in Imaging Modalities

The advancement of technology in medical imaging is fueling the market growth. Emerging technologies, including AI, machine learning (ML), and advanced imaging modalities such as 3D and 4D imaging, are enhancing diagnostic accuracy, speed, and precision. These innovations are enhancing the power of imaging modalities like magnetic resonance imaging (MRI), X-ray, computed tomography (CT) scans, and ultrasound, in diagnosing a broad range of medical conditions, such as cancers, cardiovascular diseases, and neurological disorders. Integration with AI is also revolutionizing medical imaging by making image analysis automatic, enabling clinicians to receive quicker and more accurate diagnoses. Development of portable and handheld imaging technologies is also increasing accessibility to health care in rural areas. These emerging technological innovations are lowering prices, enhancing patient care, and compelling healthcare facilities to embrace newer imaging technologies, thereby supporting the market growth. In 2025, GE HealthCare unveiled a partnership with NVIDIA at GTC 2025, enhancing their current collaboration to prioritize groundbreaking advancements in autonomous imaging, starting with autonomous X-ray solutions and self-sufficient applications in ultrasound.

Growing Prevalence of Chronic Diseases

The increasing worldwide frequency of chronic diseases such as cardiovascular diseases, cancer, diabetes, and respiratory diseases is driving the demand for medical imaging solutions. In September 2025, the United Nations will conduct the fourth High-level Meeting on NCDs, during which countries' advancements toward reaching global NCD objectives will be evaluated. Although clear advancements have been achieved on certain goals in various countries within the Region, the overall progress of the is not on course to meet its commitments. Since these conditions usually need periodic monitoring and early identification, physicians are increasingly using sophisticated imaging procedures for precise diagnosis and treatment. Imaging modalities are contributing significantly to identifying abnormalities in organs like the heart, lungs, and liver, facilitating timely intervention. The increased emphasis on preventive care is also demanding the use of imaging systems for regular screening, particularly in

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high-risk groups.

Increasing Geriatric Population

One of the major medical imaging industry trends is the aging population worldwide. As per the World Health Organization (WHO), people aged 60 or above is expected to increase to 1.4 billion by 2030. As people grow older, the chances of acquiring different health conditions such as bone fractures, neurological conditions, cardiovascular disorders, and cancer rise. Imaging techniques in medicine are increasingly becoming necessary for identifying and tracking age-related conditions. For example, MRI and CT scans are frequently used to identify early changes in dementia, Alzheimer's, and other conditions associated with aging. Similarly, advanced imaging techniques are widely utilized for managing cardiovascular health, with technologies like echocardiography and CT angiography assisting in detecting heart diseases. With the number of elderly individuals steadily rising, healthcare systems are increasingly relying on medical imaging to provide more accurate, efficient, and early diagnoses, thus driving the demand for imaging devices, particularly in geriatric care.

Medical Imaging Market Growth Drivers:

Rising Healthcare Awareness and Access

International healthcare awareness and accessibility are rising steadily, particularly in the developing world. With patients increasingly aware of how detecting diseases early and monitoring health regularly is crucial, the need for sophisticated medical imaging systems is increasing. In the developed world, people are looking for quality imaging services to maintain preventative health and spot conditions at an early stage before they get severe. At the same time, in developing economies, governments and healthcare facilities are investing in the growth of healthcare infrastructure, such as imaging equipment, to address increasing healthcare demands. These initiatives are improving the accessibility of medical imaging technologies to different populations, including underserved populations and rural communities. Additionally, the growing recognition of the advantages offered by non-invasive imaging modalities continues to propel the use of these technologies, further fueling the growth of the market.

Advances in AI and Data Analytics

Artificial Intelligence (AI) and data analytics are increasingly contributing to revolutionizing medical imaging through enhanced diagnostic accuracy, efficiency, and patient outcomes. Computer algorithms powered by AI are being incorporated into imaging devices so that automated analysis of images, disease detection, and predictive analysis can be made. Such technologies have the ability to help medical professionals detect abnormalities which might prove challenging to detect with conventional methods, improving diagnostic confidence and efficiency. AI is also helping radiologists by reducing errors, workload, and streamlining processes. In addition, medical imaging usage through data analytics is enabling the creation of personalized treatment plans since it makes it possible to process enormous amounts of patient information. Through their ability to improve the performance of imaging systems and deliver actionable insights, AI and data analytics are playing an important role in driving the growth of the medical imaging market.

Government Initiatives and Healthcare Investments

Governments across the globe are playing an important role in the medical imaging market by implementing policy changes, healthcare infrastructure investments, and financing for advanced technologies. Numerous nations are boosting their efforts towards enhancing healthcare systems, being aware about the significance of early diagnosis and treatment. Initiatives backed by governments, including health reforms and promotions of the use of medical technology, are driving the demand for high-end imaging systems. In addition, public-private partnerships are financing the growth of medical imaging centers, especially in rural areas. Furthermore, policies that promote the adoption of new imaging technologies into clinical practice are also driving the market.

Medical Imaging Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2026-2034. Our report has categorized the market based on product, application, and end user.

Breakup by Product:

-□CT Scanners

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- X-Ray Imaging Systems
- MRI Systems
- Ultrasound Imaging Systems
- Nuclear Imaging Systems
- Mammography Systems

Breakup by Application:

- Obstetrics and Gynecology Health
- Orthopedics and Musculoskeletal
- Neuro and Spine
- Cardiovascular and Thoracic
- General Imaging
- Breast Health
- Others

Breakup by End User:

- Hospitals
- Diagnostic Centers
- Academic Institutes and Research Organizations

Breakup by Region:

- North America
 - o□United States
 - o□Canada
- Asia-Pacific
 - o□China
 - o□Japan
 - o□India
 - o□South Korea
 - o□Australia
 - o□Indonesia
 - o□Others
- Europe
 - o□Germany
 - o□France
 - o□United Kingdom
 - o□Italy
 - o□Spain
 - o□Russia
 - o□Others
- Latin America
 - o□Brazil
 - o□Mexico
 - o□Others
- Middle East and Africa

Competitive Landscape:

The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the major market players in the medical imaging industry include:

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- Canon Medical Systems Corporation
- Carestream Health
- Cubresa Inc.
- Esaote SpA
- FUJIFILM Sonosite, Inc.
- GE HealthCare
- Hitachi High-Tech Corporation
- Konica Minolta, Inc.
- Koninklijke Philips N.V.
- Samsung Healthcare
- Shenzhen Mindray Bio-Medical Electronics Co., Ltd
- Siemens Healthineers AG

Key Questions Answered in This Report

- 1.What was the size of the global medical imaging market in 2025?
- 2.What is the expected growth rate of the global medical imaging market during 2026-2034?
- 3.What are the key factors driving the global medical imaging market?
- 4.What has been the impact of COVID-19 on the global medical imaging market?
- 5.What is the breakup of the global medical imaging market based on the product?
- 6.What is the breakup of the global medical imaging market based on the application?
- 7.What is the breakup of the global medical imaging market based on the end user?
- 8.What are the key regions in the global medical imaging market?
- 9.Who are the key players/companies in the global medical imaging market?

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