

# Global AI-Enabled Medical Imaging Solutions Market - 2025-2033

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## Abstracts

### AI-Enabled Medical Imaging Solutions Market Size

The global AI-enabled medical imaging solutions market size reached US\$ 10.63 Billion in 2024 and is expected to reach US\$ 33.76 Billion by 2033, growing at a CAGR of 13.8% during the forecast period 2025-2033.

### AI-Enabled Medical Imaging Solutions Market Overview

AI-enabled medical imaging solutions refer to integrating artificial intelligence (AI) technologies into medical imaging to enhance the process of capturing, analyzing, interpreting, and reporting diagnostic images. These solutions utilize advanced AI algorithms, including machine learning, deep learning, natural language processing, and computer vision, to automate and improve various aspects of medical imaging workflows, such as image enhancement, segmentation, interpretation, and decision support.

The market demand for AI-enabled medical imaging solutions is growing rapidly due to technological advancements, increasing healthcare needs, and a growing preference for Artificial Intelligence in radiology. For instance, according to the Radiological Society of North America, in the current healthcare market, AI tools for radiologists dominate. Seventy-five percent of the over 500 FDA-cleared AI algorithms target radiology practice, increasing from 70%.

### AI-Enabled Medical Imaging Solutions Market Dynamics: Drivers & Restraints

The rising aging population is significantly driving the AI-enabled medical imaging

## solutions market growth

As the global population ages, the prevalence of age-related diseases like cancer, cardiovascular conditions, neurodegenerative diseases, and musculoskeletal disorders rises. These conditions require frequent monitoring, early detection, and accurate diagnosis, which can be achieved more efficiently with AI-enabled imaging solutions.

For instance, according to the World Health Organization, by 2030, 1 in 6 people in the world will be aged 60 years or over. At this time, the share of the population aged 60 years and over will increase from 1 billion in 2020 to 1.4 billion. By 2050, the world's population of people aged 60 years and older will double (2.1 billion). The number of persons aged 80 years or older is expected to triple between 2020 and 2050 to reach 426 million. As the population ages, the elderly patients often have multiple health conditions that need to be evaluated at once. AI's ability to prioritize, analyze, and interpret complex medical images is crucial for improving patient outcomes.

Additionally, according to NCOA research, nearly 95% of adults 60 and older have at least one chronic condition, while nearly 80% have two or more. And, according to the WHO, the incidence of cancer rises dramatically at a later stage in life. AI-powered imaging has proven to be effective in the early detection of cancers like breast cancer, lung cancer, and prostate cancer, conditions that are more prevalent in older adults.

## Data privacy and security concerns are hampering the market growth

These data privacy concerns primarily arise due to the sensitive nature of medical data, the complexity of AI systems, and the increasing incidents of cyberattacks targeting healthcare organizations. Medical imaging data, such as MRI scans, CT scans, and X-rays, contains highly sensitive personal health information. This data is often stored in cloud-based systems or transmitted over networks for AI analysis, making it vulnerable to unauthorized access.

For instance, according to the HIPAA Journal, in March 2025, 1,754,097 individuals had their protected health information exposed, stolen, or impermissibly disclosed in a healthcare data breach, 2,277,555 individuals were affected in February 2025, and 3,121,358 individuals in January 2025. If sensitive patient data is compromised, it not only jeopardizes individual privacy but also damages the reputation of healthcare providers and AI vendors, potentially leading to loss of patient trust and reduced adoption of AI technologies.

## AI-Enabled Medical Imaging Solutions Market, Segment Analysis

The global AI-enabled medical imaging solutions market is segmented based on imaging modality, deployment mode, application, end-user, and region.

### Application:

The oncology segment is expected to hold 27.11% of the market share in 2024 in the AI-enabled medical imaging solutions market

According to the National Institutes of Health, cancer is among the leading causes of death worldwide. In 2022, there were almost 20 million new cases and 9.7 million cancer-related deaths worldwide. By 2040, the number of new cancer cases per year is expected to rise to 29.9 million and the number of cancer-related deaths to 15.3 million. As cancer rates increase globally, the demand for effective diagnostic tools, including AI-powered medical imaging solutions.

Early detection is crucial in improving cancer survival rates. AI has shown its potential to enhance the accuracy and speed of detecting cancers at an early stage. AI-enabled imaging solutions can analyze medical images (such as CT scans, MRIs, and mammograms) for early signs of cancer, enabling more effective and timely treatment.

For instance, the Harvard University team tested the AI tool, CHIEF (Clinical Histopathology Imaging Evaluation Foundation) performance on more than 19,400 whole-slide images from 32 independent datasets collected from 24 hospitals and patient cohorts across the globe. CHIEF achieved nearly 94 percent accuracy in cancer detection and significantly outperformed current AI approaches across 15 datasets containing 11 cancer types. These advancements in AI-enabled medical imaging for cancer are accelerating the segment's growth.

## AI-Enabled Medical Imaging Solutions Market, Geographical Analysis

North America is expected to dominate the global AI-enabled medical imaging solutions market with a 41.48% share in 2024

North America, especially in the United States, is a global leader in artificial intelligence innovation, with tech giants heavily involved in the development of AI technologies for healthcare applications, including medical imaging. For instance, in February 2025, DeepHealth, Inc. introduced next-generation AI-powered radiology informatics and

population screening solutions at the European Congress of Radiology (ECR) 2025. To empower breakthroughs in care enabled by imaging, DeepHealth's suite of solutions addresses critical clinical and operational challenges experienced by healthcare providers around the world.

Additionally, in February 2025, Royal Philips strengthens its MRI leadership with the launch of SmartSpeed Precise, powered by Dual-AI engines. Building on its award-winning Compressed SENSE and SmartSpeed technologies, this next-generation solution delivers faster scans with higher image quality. SmartSpeed Precise significantly improves scan speed and diagnostic image quality, extending AI-driven efficiency across the entire Philips MR portfolio, including existing customer systems. These advancements by major market players are boosting the market growth in the North America region.

#### AI-Enabled Medical Imaging Solutions Market Competitive Landscape

Top companies in the AI-enabled medical imaging solutions market include deepc GmbH, Qure.ai Technologies Private Limited, DeepTek.ai, Inc., Aidoc, Tempus AI, Inc., Rayscape, Infervision, AIKENIST, Rad AI, and Brainomix Limited, among others.

The global AI-enabled medical imaging solutions market report delivers a detailed analysis with 70 key tables, more than 70 visually impactful figures, and 159 pages of expert insights, providing a complete view of the market landscape.

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