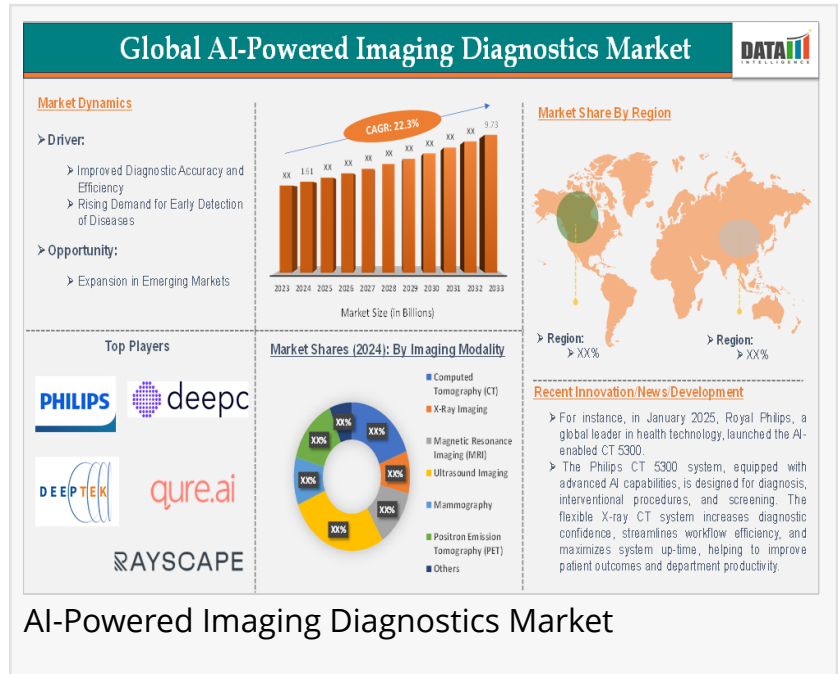


AI-Powered Imaging Diagnostics Set to Hit US\$9.73Bn by 2033 as Algorithms Revolutionize Radiology | DataM Intelligence

AI-powered imaging diagnostics is on a steep growth trajectory benefiting from 22.3% CAGR and broad adoption across modalities like CT, MRI, and ultrasound.

TEXAS, TX, UNITED STATES, August 12, 2025 /EINPresswire.com/ -- [AI-powered imaging diagnostics](https://www.datamintelligence.com/ai-powered-imaging-diagnostics-market) are transforming healthcare by enhancing disease detection and optimizing imaging workflows. According to DataM Intelligence, the market is expanding rapidly, supported by diverse modalities spanning CT, MRI, X-ray, ultrasound, mammography, and PET, with software, hardware, and services components driving growth across applications like radiology, oncology, and neurology.



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Market Growth & Segmentation Insights

• CAGR and Market Trajectory:

The AI-powered imaging diagnostics market is expected to grow at a 22.3% CAGR between 2025 and 2033. Market forecasts show the global AI powered imaging diagnostics market will rise from about USD 1.61 billion in 2024 to USD 9.73 billion by 2033.

• By Component:

Software dominates, with platforms and AI tools being the primary growth driver.

• By Modality & Application:

Modalities like CT, MRI, and X-ray capture the major market share. Applications are skewed toward critical fields oncology, neurology, cardiology, orthopedic, and breast imaging where AI

enhances early detection and workflow efficiency.

- By End-User:

Hospitals lead adoption, followed by diagnostic centers and academic/research institutions.

Key Market Players and Innovation Landscape

Leading Companies Include:

deepc GmbH, Qure.ai, DeepTek.ai, Philips, Tempus AI, Rayscape, Infervision, Rad AI, Brainomix, and AIKENIST.

Innovation Spotlight:

- AI not only assists image interpretation but also improves image quality—reducing noise, enabling lower radiation doses, and fast enhancement of MR or CT images.
- Nvidia, in collaboration with GE and IQVIA, is driving AI-powered image enhancement and workflow optimization efforts in healthcare.

Looking for in-depth insights? Grab the full report: <https://www.datamintelligence.com/buy-now-page?report=ai-powered-imaging-diagnostics-market>

Recent developments:

In May 2025, Better Medicine launched BMVision Kidney, the first CE-certified AI solution for kidney cancer detection, designed to assist radiologists in detecting, classifying, and measuring kidney tumors on contrast-enhanced CT scans, aiming to improve early-stage diagnosis and streamline cancer pathways.

In February 2025, Harrison.ai, an AI-powered medical diagnostic support and workflow solution developer, announced its US expansion, backed by US\$112 million of Series C funding, which will also fuel its product roadmap and growth in the UK, EMEA, and APAC.

Regional Market Dynamics

- North America leads with the largest share, supported by infrastructure, regulatory clarity, and dense AI adoption.
- Europe also sees robust growth, spurred by digital health funding and healthcare innovation programs.
- Asia-Pacific, particularly countries like Japan and China, represents the fastest-growing region, driven by rising healthcare demand and technology adoption.

Barriers, Validation Needs & Future Outlook

Challenges to Address:

- **Clinical Validation:** Many AI imaging tools lack large-scale prospective validation studies, limiting broader clinical adoption.
- **Data Access & Diversity:** AI R&D suffers from data imbalance less than 10% of training data comes from Asia despite representing over 60% of the global population.
- **Privacy & Regulation:** In Japan, cultural and legal constraints on data sharing are delaying AI integration in healthcare, though regulatory bodies are exploring partially anonymous data frameworks to bridge the gap.

The Road Ahead

- **Scalable AI Integration:** Partnerships, like those between Quibim and Philips in Europe, are enhancing diagnostic confidence through automated image segmentation and biomarker analytics.
- **Workflow Optimization:** AI tools capable of highlighting image anomalies, pre-reading scans, and enhancing image clarity are shortening turnaround times and improving outcomes.

As technological maturity aligns with regulatory adaptation and expanded dataset access, AI-powered imaging diagnostics is positioned to emerge as a pivotal element in modern healthcare boasting substantial accuracy improvements, workflow efficiencies, and potential cost reductions.

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