

Diagnostic Imaging Services Market to reach USD 134.50 Billion by 2035 at 4.80% CAGR

Diagnostic Imaging Services Market to Surge from USD 88.20 Billion in 2026 to USD 134.50 Billion by 2035-Powered by Aging Population and Chronic Disease Burden

NY, CA, UNITED STATES, July 8, 2026 /EINPresswire.com/ -- As per Market Research Future, the [global Diagnostic Imaging Services Market size](#) to reach USD 134.50 Billion by 2035 from USD 88.20 Billion in 2026, at a CAGR of 4.80% during the forecast period 2026--2035. The market base was estimated at USD 84.40 Billion in 2025.

The 4.80% CAGR---anchored by structural diagnostic demand rather than discretionary healthcare spending---is driven by three converging forces: a global aging demographic wave that the WHO projects will push the 65-plus population to 1.6 billion by 2050, with Medicare data showing adults over 75 receive 3.2x more imaging procedures per capita than those aged 45--54; the rapid integration of AI and machine-learning algorithms into imaging workflows, with the FDA clearing over 950 AI-enabled medical device algorithms through 2024 and radiology comprising over 76% of all clearances; and massive government hospital infrastructure investment across Asia-Pacific, with China alone earmarking over USD 12 billion for county-level hospital upgrades and India planning 12,000 imaging-equipped health and wellness centers under Ayushman Bharat. The Diagnostic Imaging Services Market is no longer a capital-equipment replacement cycle---it sits at the intersection of clinical necessity, AI-augmented productivity, and healthcare infrastructure modernization.

National governments and multilateral health organizations are amplifying this momentum. The U.S. Centers for Medicare & Medicaid Services expanded reimbursement coverage for advanced imaging modalities in 2024, while Asia-Pacific governments collectively committed over USD 18 billion in hospital infrastructure funding between 2023 and 2025.

The UK's NHS committed GBP 2.3 billion to a diagnostic imaging network expansion through 2025, creating 160 community diagnostic centers. GE HealthCare's 2024 rollout of its AI-embedded CT platform cut average read times by 34%, while Siemens Healthineers invested USD 1.2 billion in photon-counting CT development through 2025, signaling a generational shift in detector technology. Together, these initiatives are creating the clinical infrastructure and technology stack on which the Diagnostic Imaging Services Market depends.

Request A Free Sample: https://www.marketresearchfuture.com/sample_request/7186

Key Market Trends & Growth Drivers

Aging Population and Chronic Disease Burden

According to the WHO, the number of persons aged 65 and over will increase to more than 1.6 billion worldwide by 2050 from 761 million in 2021. This demographic wave directly drives up imaging volumes: Medicare data indicates that people over 75 receive 3.2x more imaging treatments per capita than those aged 45--54. The Diagnostic Imaging Services Market is persistently driven by the disproportionate impact of imaging-intensive cardiovascular, musculoskeletal, and oncological disorders on older persons. Each percentage point of aging-population growth translates into measurable scan volume, and the chronic disease management paradigm embedded in geriatric care makes this driver structurally durable through 2035.

AI and Machine-Learning Integration

The FDA cleared more than 950 AI-enabled medical device algorithms through 2024, with radiology making up over 76% of all clearances. These techniques cut average radiologist interpretation time by 25--40% in CT and MRI modalities, hence directly increasing throughput capacity proportional to staffing increases. AI triage is being employed in health systems to enhance critical-finding turnaround by 18--22%, which will lead to substantial volume growth for the Diagnostic Imaging Services Market. Early-adopter health systems report that AI-embedded CT platforms cut average read times by 34% and improve pulmonary embolism, stroke, and large-vessel occlusion detection sensitivity rates above 95%.

Government Hospital Infrastructure Investment

China's 14th Five-Year Plan earmarked over USD 12 billion for county-level hospital upgrades, with imaging departments among the top capital priorities. India's Ayushman Bharat scheme plans to add 12,000 imaging-equipped health and wellness centers under Phase 3. These investments create new site-of-service capacity in previously underserved geographies. With funding from the World Bank and technical assistance from WHO, similar projects are expanding throughout Southeast Asia and Sub-Saharan Africa. The overall program economics are improved by a decreased urban-rural access gap and expanded population coverage.

Ask for Customization: https://www.marketresearchfuture.com/ask_for_customize/7186

Market Segment Insights

BY MODALITY

X-Ray: Dominant modality with ~26.50% revenue share in 2025. Reflecting high-volume

emergency and orthopedic use cases. Digital radiography has almost completely replaced computed radiography in developed markets, with wireless flat-panel detectors driving further efficiency gains. X-ray remains the workhorse of the Diagnostic Imaging Services Market, processing the highest procedure volumes in emergency departments and primary care.

Computed Tomography (CT): Fastest-growing major modality at 6.85% CAGR (2026--2035). Fueled by AI-assisted detection, faster scanner architectures, and sub-second whole-body acquisition. Siemens Healthineers' NAEOTOM Alpha photon-counting CT signals a generational shift in detector technology, while GE HealthCare's Revolution Apex Elite CT achieves 82% dose reduction in cardiac imaging protocols. As AI-embedded CT consolidates around advanced detection capabilities, manufacturers able to supply deep-learning reconstruction platforms capture a disproportionate share.

MRI: USD 18.70 billion in 2025, supported by neurological and oncological referral growth. The installed base of 3T and 7T systems is expanding as reimbursement policies catch up with clinical evidence for advanced neuroimaging. Philips' BlueSeal helium-free MRI technology decreases environmental impact and operational expenses by eliminating helium boil-off.

Ultrasound: 17.80% share in 2025; experiencing a renaissance through handheld devices--- Butterfly Network's iQ+ and GE's Vscan Air bring diagnostic-quality imaging to the bedside, expanding the definition of what constitutes an imaging service. Point-of-care, obstetric, and cardiac use cases drive steady volume.

BY APPLICATION

Diagnostic Imaging: Dominant application with 62.10% of 2025 revenue, representing roughly USD 52.41 Billion. Encompassing routine screening, disease detection, staging, and longitudinal monitoring. Volume growth tracks closely with aging demographics and expanded screening guidelines---the U.S. Preventive Services Task Force lowered the recommended lung cancer screening age to 50 in 2024, adding an estimated 5 million eligible individuals.

Therapeutic & Interventional Imaging: Fastest-growing application segment at 7.10% CAGR. Reflecting a broader shift toward minimally invasive procedures that rely on real-time imaging guidance, including catheter-based cardiac repair, tumor ablation, and neurovascular thrombectomy. The global interventional radiology procedures market is expanding at rates exceeding 7% annually, pulling imaging services deeper into the procedural revenue stream.

BY END USER

Hospitals: Largest segment at ~56.50% share in 2025, representing roughly USD 47.69 Billion. Anchored by full-spectrum modality access and inpatient referral networks. National hospital procurement through ministries of health and group purchasing organizations dominates volume, channeling complex procedures and emergency imaging through centralized

infrastructure.

Diagnostic Imaging Centers: Fastest-growing end-user segment at 7.60% CAGR. Gaining share rapidly as payers implement site-neutral payment policies that steer patients toward lower-cost freestanding facilities. In the U.S., Medicare Advantage plans increasingly mandate prior authorization for hospital-based imaging while granting automatic approval for accredited outpatient centers. Payer policies are actively steering volumes toward freestanding centers, where per-scan reimbursement is 40--60% lower than hospital outpatient departments but operating margins run 8--12 percentage points higher due to leaner overhead.

BY IMAGING MODALITY

Digital Imaging: Dominant segment with ~68% of demand in 2025. Legacy analog X-ray and film-based workflows are giving way to fully digital, AI-augmented platforms that pair sub-second reconstruction with automated triage. Digital radiography has almost completely replaced computed radiography in developed markets.

Hybrid Imaging: Fastest-growing modality class at 6.2% CAGR. PET/CT and PET/MRI systems that combine anatomical and functional imaging are gaining traction in oncology and neurology, enabling precise tumor characterization and treatment monitoring.

Regional Outlook

North America --- Dominant Market (~44.90% Share, 2025)

The United States generates approximately 82.5% of North American Diagnostic Imaging Services Market revenue, driven by Medicare/Medicaid volume and AI adoption. CMS processes over 800 million imaging claims annually, and the 2024 Medicare Physician Fee Schedule expansion of advanced modality reimbursement created a structural outpatient tail. The U.S. Preventive Services Task Force lowered the recommended lung cancer screening age to 50 in 2024, adding an estimated 5 million eligible individuals. Reimbursement breadth and high per-capita utilization support premium-priced AI-embedded platform demand that emerging markets cannot match.

Canada contributes CAD 2.1 billion in provincial diagnostic imaging modernization through 2028, targeting wait-time reduction, while Mexico is growing at a solid 4.90% CAGR on IMSS hospital expansion program investment. North America's leadership rests on payer infrastructure depth and the structural AI-augmented segment created by expanded screening guidelines and site-of-service steering policies.

Europe --- Second Largest (USD 21.19 Billion, 2025)

Europe's Diagnostic Imaging Services Market reflects divergent national strategies---Germany

leads regionally with DRG-funded imaging infrastructure and hospital reform law (KHVVG) restructuring capital funding to incentivize advanced imaging deployment, representing 24.8% of regional share, while the UK historically used selective hospital targeting before broadening coverage through the NHS imaging transformation program committing GBP 2.3 billion and creating 160 community diagnostic centers.

France is growing at 4.55% CAGR on national cancer screening mandates. Italy contributes USD 2.10 Billion on PNRR-funded hospital digitization. Harmonization pressure from EU MDR compliance requirements is gradually narrowing these differences, lifting baseline demand across the region. The Nordic countries are growing at a steady pace on AI-first imaging strategies. Spain contributes through regional health authority investments at 4.40% CAGR. Russia holds a smaller share through import substitution in imaging equipment.

Asia-Pacific --- Fastest-Growing Region (5.95% CAGR, 2026--2035)

Asia-Pacific is the engine of the Diagnostic Imaging Services Market. China holds the largest regional share with 38.2% of regional revenue, its 14th Five-Year Plan having earmarked over USD 12 billion for county-level hospital upgrades with imaging departments among the top capital priorities. Domestic manufacturers---Mindray, United Imaging, and Neusoft Medical---are driving price competition that expands addressable volumes. India is growing at 7.10% CAGR on the back of Ayushman Bharat rural imaging access expansion and 12,000 planned imaging-equipped health and wellness centers.

ASEAN economies show strong growth at 5.50% CAGR as Thailand and Vietnam hospital expansion converges with medical tourism. Japan contributes USD 3.90 Billion through its aging population and high per-capita utilization. South Korea is growing at 5.80% CAGR on medical tourism and AI imaging R&D positioning. The rest of Asia-Pacific is growing on Australia and New Zealand fleet renewal. The region's combined contribution anchors the global volume base for CT, MRI, and ultrasound demand.

Middle East & Africa --- Emerging Opportunity (5.40% CAGR, 2026--2035)

The Middle East & Africa carries the widest imaging infrastructure gap and therefore the steepest opportunity. Saudi Arabia leads the region with Vision 2030 healthcare mega-projects having funneled over USD 65 billion into healthcare infrastructure, including flagship imaging centers in Riyadh and Jeddah, contributing 32.5% of regional share. The UAE contributes USD 0.85 Billion through medical tourism and premium facility positioning.

South Africa is growing at 4.60% CAGR on NHI rollout and public-sector imaging investment. Egypt is growing through universal health insurance expansion, contributing USD 0.40 Billion. The rest of the region is growing steadily on NGO and development-bank funding. Radiologist workforce shortages remain a restraint---the Royal College of Radiologists estimated a 9% consultant vacancy rate across NHS trusts in England as of late 2024, and similar gaps constrain

throughput in emerging markets.

Competitive Landscape and Recent Developments

The Diagnostic Imaging Services Market operates under medium concentration, with an estimated Herfindahl-Hirschman Index in the 1,200--1,500 range and the top five equipment and service providers capturing an estimated 55--62% of global revenue. Concentration is highest in high-income segments where regulatory and technology barriers are steep; the emerging-market tier is more fragmented as regional manufacturers and service providers compete on price.

The competitive landscape is stratified between premium technology leaders serving hospital and academic markets, high-volume mid-tier suppliers capturing emerging-market tenders, and AI-platform specialists consolidating the digital workflow segment.

KEY COMPANIES AND RECENT MILESTONES

GE HealthCare (January 2025): Launched the Revolution Apex Elite CT with deep-learning reconstruction, achieving 82% dose reduction in cardiac imaging protocols. This positions GE to capture share in the growing cardiac CT segment. Estimated revenue share: ~14--17%.

Siemens Healthineers (October 2024): Received FDA clearance for its AI-Rad Companion Chest CT 2.0, which autonomously detects and quantifies 12 thoracic pathologies, and invested USD 1.2 billion in photon-counting CT development through 2025. Estimated revenue share: ~13--16%.

Philips Healthcare (2024--2025): MR 5300, Spectral CT 7500, and HealthSuite platform anchor an integrated diagnostics and connected-care strategy. The BlueSeal helium-free MRI technology decreases environmental impact and operational expenses. Estimated revenue share: ~10--13%.

Future Outlook: 2026--2035

By 2030, AI-powered autonomous imaging workflows will become the operating system of diagnostic radiology. Fully autonomous scan acquisition---where AI algorithms set protocols, position patients, and optimize image quality without technologist intervention---is advancing from prototype to early commercialization. Siemens Healthineers and Philips both demonstrated autonomous MRI sequencing at RSNA 2024. By 2030, an estimated 40% of routine imaging reads---chest X-ray, screening mammography, and bone-age assessment---could be handled autonomously by validated AI systems, with radiologists focusing on complex and interventional cases. This redistribution of clinical labor will reshape staffing models and create a new business model layered on top of the core imaging services franchise.

Cloud-based PACS and platform economics will reframe cost structures by the early 2030s. Migration from on-premise PACS to cloud-native platforms reduces IT overhead by 30--40% while enabling multi-site image sharing and specialist access. Cloud PACS adoption crossed 56--58% penetration among U.S. health systems in 2024, up from 11% in 2021. This shift creates platform economics where imaging networks aggregate demand, negotiate payer contracts at scale, and deploy standardized AI tools across consolidated volumes. As per-scan costs fall with scale, the addressable channel widens from tertiary hospitals to secondary clinics and community diagnostic centers, extending advanced imaging beyond traditional settings.

More Related Research Insights:

<https://www.marketresearchfuture.com/reports/urinary-catheters-market-2538>

<https://www.marketresearchfuture.com/reports/ent-devices-market-7197>

<https://www.marketresearchfuture.com/reports/transdermal-drug-delivery-systems-market-7545>

<https://www.marketresearchfuture.com/reports/transfection-reagents-and-equipment-market-26203>

<https://www.marketresearchfuture.com/reports/trocars-market-6640>

<https://www.marketresearchfuture.com/reports/renal-denervation-market-6712>

<https://www.marketresearchfuture.com/reports/sleep-aids-market-11738>

Larry Wilson

WantStats Research And Media Pvt. Ltd.

+1 855-661-4441

[email us here](#)

Visit us on social media:

[LinkedIn](#)

[Facebook](#)

[YouTube](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/925174306>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

