

Diagnostic Imaging Market to Reach USD 71.2 Billion by 2035, Growing at 4.8% CAGR from USD 42.3 Billion in 2024 | TMR

Global diagnostic imaging market valued at US\$ 42.3 Bn in 2024, set to grow at 4.8% CAGR and reach US\$ 71.2 Bn by 2035.

WILMINGTON, DE, UNITED STATES,
September 16, 2025 /

EINPresswire.com/ -- Diagnostic imaging plays a crucial role in modern healthcare, offering non-invasive techniques to visualize internal structures of the human body. It aids in early detection, accurate diagnosis, treatment planning, and disease monitoring. The market encompasses

a wide range of modalities, including X-ray, computed tomography (CT), magnetic resonance imaging (MRI), ultrasound, and nuclear imaging (PET and SPECT). With rising healthcare expenditure, technological advancements, and increasing demand for preventive care, the [diagnostic imaging market](#) is witnessing consistent growth.

In 2024, the global diagnostic imaging market was valued at US\$ 42.3 Bn. It is projected to expand at a CAGR of 4.8% from 2025 to 2035, reaching US\$ 71.2 Bn by 2035. The industry outlook remains positive, driven by the rising burden of chronic diseases, an aging population, and continuous innovation in imaging technologies.

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Analysts' Viewpoint

The diagnostic imaging industry is undergoing transformative changes, shaped by the convergence of advanced imaging modalities, digital health, and artificial intelligence (AI).

Diagnostic Imaging Market Outlook 2035

The global diagnostic imaging industry was valued at
US\$ 42.3 Bn
in 2024



It is projected to grow at a CAGR of
4.8%
from 2025 to 2035



The global diagnostic imaging market is projected to reach
US\$ 71.2 Bn by the end of 2035

Analysts highlight the following key factors:

Early disease identification is becoming a priority in healthcare systems worldwide, propelling demand for advanced imaging solutions.

Artificial intelligence and machine learning are redefining imaging accuracy, workflow efficiency, and predictive analytics.

Portable and point-of-care imaging systems are enhancing accessibility, particularly in rural and resource-constrained regions.

Despite challenges related to high capital expenditure and regulatory requirements, the market trajectory remains optimistic as healthcare providers prioritize preventive care and precision medicine.

Growth is supported by the rising incidence of chronic diseases such as cancer, cardiovascular disorders, and neurological conditions, which require advanced imaging for timely diagnosis and monitoring. Moreover, increased healthcare infrastructure investment, particularly in developing economies, is expanding access to diagnostic imaging services.

Market Drivers

Rising Prevalence of Chronic Diseases

The growing burden of chronic diseases has significantly increased demand for imaging services. For instance, the American Cancer Society estimated nearly 1.9 million new cancer cases in the U.S. in 2023, underlining the need for advanced MRI and PET imaging for tumor detection and staging. Similarly, cardiovascular diseases and neurological disorders are driving sustained investments in imaging facilities.

Technological Advancements

Technological innovation is the most transformative driver of market growth:

AI-powered imaging systems enhance detection accuracy and streamline workflows.

Hybrid modalities such as PET/CT and PET/MRI provide combined anatomical and functional insights.

Portable imaging devices improve diagnostic access in remote or resource-limited regions.

3D/4D imaging technologies enhance visualization for complex conditions, particularly in oncology and obstetrics.

Preventive Healthcare and Early Diagnosis

Governments and private healthcare providers are investing in diagnostic imaging as part of preventive healthcare programs. Early detection reduces disease burden and long-term costs, strengthening the case for widespread imaging adoption.

Market Restraints and Challenges

Despite strong growth potential, the diagnostic imaging industry faces several challenges:

High equipment costs for advanced MRI, PET, and hybrid systems limit adoption in low-resource settings.

Regulatory hurdles prolong the time to market for new imaging technologies.

Shortage of skilled radiologists and technicians creates bottlenecks in service delivery.

Concerns about radiation exposure in CT and X-ray imaging remain a public health issue.

Segmentation Analysis

By Product Type

X-Ray Imaging – Dominant due to cost-effectiveness, wide availability, and broad clinical applicability. Digital X-ray systems and portable devices enhance efficiency and reduce radiation.

MRI (Magnetic Resonance Imaging) – Strong growth driven by superior soft tissue visualization, particularly in neurology and oncology.

CT (Computed Tomography) – Vital in cardiology, oncology, and emergency diagnostics. Technological improvements in multi-slice and low-dose CT are fueling adoption.

Ultrasound – Portable, affordable, and safe, ultrasound is expanding across obstetrics, cardiology, and musculoskeletal applications.

Nuclear Imaging (PET, SPECT) – Critical for oncology and cardiology, though adoption is limited by high cost and specialized infrastructure needs.

By Application

Cardiology – Imaging for heart disease detection and management.

Neurology & Spine – MRI and CT essential for neurodegenerative conditions and trauma.

Oncology – PET/CT and MRI drive cancer detection and staging.

Orthopedics & Musculoskeletal – X-ray and MRI dominate.

Obstetrics & Gynecology – Ultrasound leads due to safety and accuracy.

By End-user

Hospitals – Largest segment due to infrastructure and multi-specialty integration.

Diagnostic Centers – Rapidly growing, offering cost-effective outpatient imaging.

Specialty Clinics & Research Institutes – Niche adoption of advanced modalities.

Regional Outlook

North America (Leading Region)

Advanced healthcare infrastructure, high adoption of technology, and significant healthcare spending sustain market leadership.

The U.S. has over 6,000 hospitals with access to MRI and CT facilities, reflecting strong imaging capacity.

Presence of key players such as GE HealthCare, Siemens Healthineers, and Hologic fosters innovation.

Europe

Strong regulatory frameworks and investment in healthcare modernization support stable market growth.

Countries such as Germany, France, and the U.K. are major contributors.

Asia Pacific

Fastest-growing region due to rising healthcare investments, population growth, and burden of chronic diseases.

Governments in China, India, and Japan are prioritizing diagnostic infrastructure expansion.

Latin America and Middle East & Africa (MEA)

Gradual adoption supported by healthcare reforms, international collaborations, and improved access to private healthcare facilities.

However, cost barriers and infrastructure limitations persist.

Competitive Landscape

The diagnostic imaging market is moderately consolidated, with leading players focusing on technological innovation, partnerships, and regional expansion.

Key Companies:

GE Healthcare

Siemens Healthineers

Koninklijke Philips N.V.

Canon Medical Systems

Hitachi Healthcare

Hologic Inc.

Bruker Corporation

Fujifilm Holdings Corporation

Shimadzu Corporation
Esaote SPA
Neusoft Medical Systems

Recent Developments:

March 2024: GE HealthCare introduced SonoSAMTrack1, an AI-powered ultrasound segmentation tool.

January 2024: Canon launched Aplio me, a portable ultrasound system for multi-specialty use.

Future Outlook (2025–2035)

The diagnostic imaging market is poised for robust growth, underpinned by:

Increasing integration of AI and machine learning in imaging solutions.

Rising demand for portable and handheld imaging systems for point-of-care diagnostics.

Wider adoption of hybrid imaging modalities for precision medicine.

Expanding healthcare infrastructure in developing economies.

By 2035, diagnostic imaging will be central to preventive healthcare, precision medicine, and population health management. Strategic investments in innovation, partnerships, and infrastructure will determine the pace of market evolution.

The global diagnostic imaging market is entering a transformative era. With a forecasted value of US\$ 71.2 Bn by 2035, the industry will benefit from the convergence of technological innovation, rising disease burden, and healthcare modernization. While high costs and regulatory challenges persist, the trajectory remains positive. Companies that invest in AI integration, portable solutions, and global expansion strategies will be well-positioned to lead in the evolving diagnostic imaging landscape.

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