

3D Medical Imaging Equipment Market Report by Product (X-Ray, Ultrasound, MRI, CT Scan, Hybrid Imaging), Solution (3D Scanning, 3D Rendering, 3D Modeling), Application (Oncology, Cardiology, Orthopedics, and Others), Component (Hardware, Software, Service), Deployment (On-Premise Based Platform, Cloud Based Platform, Web Based Platform), and Region 2026-2034

Market Report | 2026-02-01 | 142 pages | IMARC Group

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Report description:

The global 3D medical imaging equipment market size reached USD 14.3 Billion in 2025. Looking forward, IMARC Group expects the market to reach USD 20.8 Billion by 2034, exhibiting a growth rate (CAGR) of 4.15% during 2026-2034. The increasing demand for better imaging solutions in healthcare is raising the adoption of advanced diagnostic tools, which is catalyzing the market.

3D MEDICAL IMAGING EQUIPMENT MARKET ANALYSIS:

- Major Market Drivers: The rising prevalence of chronic diseases leads to higher usage of imaging tools for early and accurate detection, thereby propelling the market.

o Key Market Trends: The continuous improvements in imaging technology are enhancing efficiency and accessibility, which is acting as a significant growth-inducing factor.

o Competitive Landscape: Some of the major market companies include GE Healthcare, Philips Electronics Nederland B.V., Siemens Healthineers, FUJIFILM Corporation, Analogic Corporation, ContextVision AB, Dentsply Sirona, EOS imaging, Esaote S.p.A, Fuel 3D Technologies Limited, KaVo Dental GmbH, Hologic, Inc., Intelrad Medical Systems, Planmeca Group, Samsung Medison,

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and Shimadzu Corporation., among many others.

- o Geographical Trends: Advanced healthcare infrastructure and increased demand for diagnostic imaging solutions are augmenting the market in North America.

- o Challenges and Opportunities: The complexity of data interpretation is hindering the market. However, improving software integration and user-friendly interfaces to enhance accuracy and efficiency in clinical settings will continue to strengthen the market over the forecast period.

3D MEDICAL IMAGING EQUIPMENT MARKET TRENDS:

Real-time 3D Imaging Advancements

The ability to convert 2D medical scans into dynamic 3D models in real time has significantly improved visualization for healthcare professionals. Moreover, this technology allows for faster and more accurate interpretations of complex anatomical structures, thereby optimizing clinical workflows and enhancing diagnostic accuracy. For instance, in February 2024, Visage Imaging launched Visage Ease VP, an immersive diagnostic imaging platform compatible with Apple's Vision Pro augmented reality headset. This 3D medical imaging technology enhances diagnostics through eye, hand, and voice navigation, with UC San Diego Health being the first to navigate the system.

Enhanced Precision in Surgical Procedures

3D medical imaging technology offers detailed, multi-dimensional views of anatomical structures, allowing surgeons to plan and perform procedures with greater accuracy. In contrast, this reduces risks, improves outcomes, and facilitates minimally invasive surgeries by providing a clear view of critical areas, thereby supporting more effective surgical decision-making. For instance, in June 2024, GE HealthCare and MediView launched OmnifyXR, the world's first augmented reality interventional suite, at North Star Vascular and Interventional. This 3D imaging solution offers a holographic heads-up display, 3D anatomy visualization, and remote collaboration. Thus, enhancing precision in interventional radiology procedures.

Growing Demand for Non-Invasive Diagnostics

The rise in preference for non-invasive diagnostic methods has driven the demand for 3D medical imaging equipment. Furthermore, these tools allow clinicians to conduct detailed internal examinations without requiring surgery. Therefore, offering patients safer alternatives while maintaining high levels of diagnostic detail and accuracy. For instance, in April 2024, Aura launched the Aura 3D imaging system at AMWC in Monaco. This innovative imaging solution captures a 3D digital twin of a patient's face and neck, providing AI-driven real-time skin analysis, enhancing consultations, and improving patient-practitioner communication in the imaging industry.

GLOBAL 3D MEDICAL IMAGING EQUIPMENT INDUSTRY SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with the 3D medical imaging equipment market forecast at the global and regional levels for 2026-2034. Our report has categorized the market based on product, solution, application, component, and deployment.

Breakup by Product:

To get detailed segment analysis of this market Request Sample

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- X-Ray
- Ultrasound
- MRI
- CT Scan
- Hybrid Imaging

X-ray currently holds the largest 3D medical imaging equipment market share

The report has provided a detailed breakup and analysis of the market based on the product. This includes x-ray, ultrasound, MRI, CT scan, and hybrid imaging. According to the report, x-ray represented the largest market segmentation.

X-ray technology is integral to 3D medical imaging equipment, enabling precise diagnosis of complex conditions. For example, Siemens Healthineers launched the Multitom Rax, a robotic X-ray system offering advanced 3D imaging for orthopedic and trauma care.

Breakup by Solution:

- 3D Scanning
 - o 3D Rendering
 - o 3D Modeling

3D rendering currently holds the largest 3D medical imaging equipment market demand

The report has provided a detailed breakup and analysis of the market based on the solution. This includes 3D scanning, 3D rendering, and 3D modeling. According to the report, 3D rendering represented the largest market segmentation.

3D rendering in medical imaging equipment transforms scan data into detailed visuals, aiding diagnostics and surgical planning. For example, GE Healthcare's Revolution CT introduced real-time, high-resolution 3D imaging, thereby enhancing clinical accuracy for complex procedures like cardiac assessments.

Breakup by Application:

- Oncology
- Cardiology
- Orthopedics
- Others

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Oncology currently holds the largest 3D medical imaging equipment market statistics

The report has provided a detailed breakup and analysis of the market based on the application. This includes oncology, cardiology, orthopedics, and others. According to the report, oncology represented the largest market segmentation.

3D medical imaging equipment in oncology enhances tumor detection, treatment planning, and monitoring. For example, Siemens' Biograph Vision Quadra PET/CT system revolutionizes cancer diagnosis, providing ultra-high resolution and extended field-of-view imaging for precision care.

Breakup by Component:

- Hardware

- Software

- Service

Hardware currently holds the largest 3D medical imaging equipment market revenue

The report has provided a detailed breakup and analysis of the market based on the component. This includes hardware, software, and service. According to the report, hardware represented the largest market segmentation.

Hardware in 3D medical imaging equipment includes advanced components like sensors, processors, and scanners, enhancing image quality and precision. For example, Siemens Healthineers launched the Artis icono, a 3D medical imaging system featuring advanced hardware components. This innovation boosts image clarity, enhancing accuracy in diagnostics and aiding complex medical procedures with greater efficiency.

Breakup by Deployment:

- On-Premise Based Platform

 - o Cloud Based Platform

 - o Web Based Platform

On-premise based platform currently holds the largest 3D medical imaging equipment market outlook

The report has provided a detailed breakup and analysis of the market based on the deployment. This includes on-premise based platform, cloud based platform, and web based platform. According to the report, on-premise based platform represented the largest market segmentation.

On-premise deployment of 3D medical imaging equipment allows hospitals to maintain control over data security and compliance. For example, Siemens Healthineers launched the ARTIS icono, enhancing on-premise imaging systems for precision in complex interventional procedures.

Breakup by Region:

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To get more information on the regional analysis of this market Request Sample

- North America
- Europe
- Asia Pacific
 - o Middle East and Africa
 - o Latin America

North America dominates the market

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America, Europe, Asia Pacific, Middle East and Africa, and Latin America. According to the report, North America accounted for the largest market share.

North America leads the market due to its advanced healthcare infrastructure, high adoption of cutting-edge technologies, and strong R&D investments. In addition, the region's leadership is further supported by increasing demand for accurate diagnostics and government support for innovation in medical imaging, keeping it at the forefront of this sector globally. Furthermore, GE Healthcare's launch of the Revolution Ascend enhanced diagnostic precision with AI-powered imaging. Consequently, these factors mark the region's dominance in the market.

COMPETITIVE LANDSCAPE:

The 3D medical imaging equipment market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major market companies have also been provided. Some of the key players in the market include:

KEY QUESTIONS ANSWERED IN THIS REPORT

1. What was the size of the global 3D medical imaging equipment market in 2025?
2. What is the expected growth rate of the global 3D medical imaging equipment market during 2026-2034?
3. What are the key factors driving the global 3D medical imaging equipment market?
4. What has been the impact of COVID-19 on the global 3D medical imaging equipment market growth?
5. What is the breakup of the global 3D medical imaging equipment market based on the product?
6. What is the breakup of the global 3D medical imaging equipment market based on the solution?
7. What is the breakup of the global 3D medical imaging equipment market based on the application?
8. What is the breakup of the global 3D medical imaging equipment market based on the component?

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9. What is the breakup of the global 3D medical imaging equipment market based on the deployment?

10. What are the key regions in the global 3D medical imaging equipment market?

11. Who are the key players/companies in the global 3D medical imaging equipment market?

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