

3D Imaging Market by Component (Hardware (3D Cameras, 3D Sensors, 3D Scanners), Software (3D Modeling Software, 3D Scanning Software), Services), Technology (Stereoscopic Imaging, Laser-based Imaging), Vertical and Region - Global Forecast to 2028

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Abstracts

The global market for 3D Imaging market is projected to grow from USD 34.3 billion in 2023 to USD 88.4 billion by 2028, at a CAGR of 20.8% during the forecast period. 3D imaging in healthcare and life sciences sector revolutionizes diagnostics, treatment, and patient care. Offering comprehensive views of internal structures, enhances understanding and accuracy in identifying pathologies. This precise imaging not only improves diagnostic capabilities, potentially replacing invasive procedures, but also optimizes treatment planning, reducing operating time and damage to healthy tissue. Moreover, it fosters clearer communication between healthcare professionals and patients, serving as a valuable educational tool. Integration with augmented reality and emerging AI further refines surgical navigation and diagnostic accuracy. Ultimately, 3D imaging's transformative impact lies in its ability to provide detailed insights, streamline procedures, and empower both clinicians and patients with enhanced visualization and precise localization, fundamentally altering the landscape of medical practice.

“The hardware segment is projected to be the largest market during the forecast period.”

In 3D imaging, diverse hardware plays significant roles in capturing, processing, and utilizing three-dimensional data. 3D sensors, such as structured light or time-of-flight cameras, acquire depth information by emitting and detecting light reflections, enabling

the creation of detailed spatial maps. These sensors are integral in various applications, including facial recognition, gesture tracking, and autonomous vehicles. Additionally, 3D scanners utilize lasers or cameras to capture intricate details of objects or environments, facilitating the creation of highly accurate digital models used in industries such as architecture, manufacturing, and healthcare. Complementing this, 3D printers interpret digital designs to produce physical objects layer by layer, revolutionizing prototyping, product development, and even biomedical applications by generating custom prosthetics or tissue scaffolds. The convergence of these hardware components empowers industries with transformative capabilities, ranging from precise data acquisition to the tangible manifestation of digitally conceived creations.

“Among Technology, Structured Light Imaging is anticipated to hold the highest CAGR during the forecast period.”

Structured light imaging is a technique vital in 3D imaging that involves projecting a known pattern onto a surface or object. This pattern, often grids or stripes, distorts upon hitting the object and is captured by a camera, allowing precise depth and shape calculations based on the distortion. The deformation of the pattern provides information used to reconstruct a detailed three-dimensional model of the object or surface. This method is widely employed in various industries such as manufacturing, healthcare, and computer vision due to its accuracy and ability to capture intricate details, enabling applications such as quality control, facial recognition, and precise measurements in medical imaging, thereby revolutionizing how we perceive and interact with three-dimensional data.

“Among services, the professional services is anticipated to hold the largest market during the forecast period.”

Professional services in 3D imaging encompass consulting services, support and maintenance, and deployment and integration to optimize technology integration. These services offer tailored solutions, training programs, and ongoing support for seamless incorporation into workflows. These services ensure efficient utilization, addressing specific industry needs, and providing continuous maintenance for sustained performance, enhancing the overall effectiveness of 3D imaging solutions across diverse sectors.

“North America to account for the largest market size during the forecast period.”

North America emerged as the primary revenue hub in the global 3D imaging market.

The region's dominance is fueled by substantial investments in cutting-edge technologies such as AI and IoT, specifically aimed at producing high-resolution 3D images. These robust investments significantly bolster market expansion, enabling organizations, particularly in the US, to embrace 3D imaging sensor hardware and animation solutions. This adoption aims to elevate customer experiences, highlighting a strategic shift towards leveraging advanced imaging technologies for enhanced engagement and service delivery. The concerted efforts and investments made by companies in these technological avenues underscore North America's pivotal role in spearheading the evolution and application of 3D imaging within diverse industries.

Breakdown of primaries

In-depth interviews were conducted with Chief Executive Officers (CEOs), innovation and technology directors, system integrators, and executives from various key organizations operating in the 3D Imaging market.

By Company: Tier I: 15%, Tier II: 40%, and Tier III: 45%

By Designation: C-Level Executives: 50%, Directors: 30%, and Others: 20%

By Region: North America: 25%, Europe: 30%, APAC: 30%, MEA: 10%, Latin America: 5%

Major vendors offering 3D Imaging solutions and services across the globe GE Healthcare (US), Autodesk (US), STMicroelectronics (Switzerland), Panasonic (Japan), Sony Corporation (Japan), Trimble (US), FARO Technologies (US), Philips (Netherlands), Google (US), Adobe (US), HP (US), Dassault Systemes (France), Bentley Systems (US), Lockheed Martin (US), Topcon (Japan), Able Software (US), Maxon (Germany), ESRI (US), Archilogic (Switzerland), Pix4D (Switzerland), Brainkey (US), Precismo (US), Kaarta (US), LightCode Photonics (Estonia), Vzense Technology (US), Capoom (Istanbul), Atomontage (US), Hivemapper (US), Shapr3D (Hungary), Innersight (UK).

Research Coverage

The market study covers 3D Imaging Market across segments. It aims to estimate the market size and the growth potential across different segments, such as component, technology, vertical, and region. It includes an in-depth competitive analysis of the key

players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report

The report would provide the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market for 3D Imaging market and its subsegments. It would help stakeholders understand the competitive landscape and gain more insights better to position their business and plan suitable go-to-market strategies. It also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (rising demand for personalized medicine, growth in entertainment and media entertainment, rising demand for 3D-enabled devices across verticals, increasing urbanization, push for productivity, and environment concerns in the architecture and construction vertical), restraints (limited field of view and depth perception, high maintenance costs of 3D imaging hardware, interoperability issues with 3D imaging solutions and hardware), opportunities (adoption of 3D printing in healthcare, increasing investments in AI by 3D medical imaging device manufacturers, high demand for 3D imaging solutions in the retail and eCommerce vertical), and challenges (the need for education and training, data processing and storage demands, high power consumption requirements for 3D image processing) influencing the growth of the 3D Imaging market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the 3D Imaging market.

Market Development: Comprehensive information about lucrative markets – the report analyses the 3D Imaging market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in 3D Imaging market strategies; the report also helps stakeholders understand the pulse of the 3D Imaging market and provides them with information on key market drivers,

restraints, challenges, and opportunities.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players such as GE Healthcare (US), Adobe (US), Autodesk (US), Trimble (US), Dassault Systemes (France), and others in the 3D Imaging market.

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Developments, MnM view, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

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