

# **United States CT Scanners Market By Technology (16-Slice, 32-Slice, 8-Slice, 64-Slice, 128 & Above Slice), By Modality (Fixed, Mobile), By Device Architecture (C-arm, O-arm), By Application (Cardiology, Oncology, Neurology, Others), By End User (Diagnostic Centers, Hospitals, Others), By Region, Competition, Forecast and Opportunities, 2018-2028F**

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## **Abstracts**

United States CT Scanners Market has valued at USD 1.45 Billion in 2022 and is anticipated to project steady growth in the forecast period with a CAGR of 6.53% through 2028. CT scanners, also known as Computed Tomography scanners, are a sophisticated type of medical imaging equipment that utilize specialized X-ray technology to generate highly detailed images of the body's internal structures. These scanners employ a rotating mechanism that revolves around the patient, capturing multiple X-ray images from various angles. These captured images are then processed by a computer to produce cross-sectional pictures of the body, often referred to as slices. By stacking these slices together, a three-dimensional image of the body can be formed. This advanced imaging technique enables doctors to meticulously examine different layers of the body, offering an unparalleled level of detail that surpasses conventional X-rays. Consequently, CT scans have proven to be immensely valuable in the detection of tumors, injuries, infections, and in monitoring the progression of various diseases. With their ability to provide precise and comprehensive diagnostic information, CT scanners play a crucial role in modern medical practice.

## **Key Market Drivers**

## Rising Demand for Early and Efficient Diagnosis

The United States healthcare sector is witnessing a significant surge in the demand for early and efficient diagnosis, which is, in turn, expected to bolster the demand for CT scanners. CT scanners, with their ability to provide detailed and accurate internal body images, play a pivotal role in the detection and diagnosis of a variety of medical conditions at an early stage. As preventative healthcare gains momentum in the US, the urgency for early diagnosis and treatment is becoming more pronounced. Increased awareness about the benefits of early detection, coupled with the rising incidence of chronic diseases such as cancer and heart disease, are driving the need for efficient diagnostic measures. Moreover, technological advancements in CT scanners, such as high-resolution imaging and reduced scan time, are making these devices more appealing to healthcare providers. The ongoing trend towards personalized healthcare is another factor propelling the growth of the CT scanner market, as these devices allow for tailored diagnostic procedures based on individual patient's needs. Hence, the escalating demand for early and efficient diagnosis is poised to significantly boost the use of CT scanners in the United States.

## Increasing Incidences of Chronic Diseases

The rising incidence of chronic diseases in the United States is projected to boost the demand for CT scanners, a crucial diagnostic tool in the healthcare sector. With the growing prevalence of conditions such as cancer, heart disease, and stroke, there is an urgent need for efficient, precise, and quick diagnostic procedures to aid in the management and treatment of these illnesses. CT scanners, with their capability to provide detailed images of various body structures, are an indispensable asset in this regard. They facilitate early detection of abnormal growths, blockages, or other anomalies that may signal the onset of a chronic disease. Moreover, CT scanners are also essential in monitoring the progression of these conditions, assessing the effectiveness of treatment strategies, and planning surgeries if needed. Furthermore, as the American population ages, the prevalence of chronic diseases is anticipated to rise, amplifying the need for CT scanners. In essence, the escalating chronic disease burden coupled with the aging demographic in the United States is likely to augment the demand for CT scanners in the foreseeable future.

## Shifting Medical Care Toward Image-guided Interventions

The shift towards image-guided interventions in medical care is anticipated to

significantly drive the demand for CT scanners in the United States. These interventions represent a paradigm shift in healthcare, offering minimally invasive procedures that increase patient safety, reduce recovery periods, and enhance overall treatment outcomes. CT scanners, in particular, play a critical role in these procedures, providing detailed cross-sectional images to aid clinicians in planning and executing interventions. Moreover, the rapid advancements in medical imaging technology, such as high-resolution 3D imaging, are making these procedures even more precise and effective. The rise of conditions requiring image-guided interventions, such as cancer, cardiovascular diseases, and neurological disorders, further amplifies this demand. As healthcare providers endeavor to deliver quality patient care while minimizing invasiveness, the reliance on CT scanners and other imaging technologies is set to escalate. This trend, coupled with the continual innovation in imaging technologies and the increasing healthcare expenditure in the U.S., is poised to propel the demand for CT scanners in the foreseeable future.

### Technological Advancements

Technological advancements have been instrumental in driving the demand for CT scanners in the United States. As the healthcare sector continues to evolve, there is an increased adoption of sophisticated diagnostic equipment such as CT scanners. The integration of AI and machine learning into these devices has significantly enhanced their accuracy and efficiency, contributing to their demand. Advanced features like spectral imaging and improved resolution have increased the device's adaptability in detecting various health conditions, including cancer, cardiovascular diseases, and musculoskeletal disorders. The introduction of portable CT scanners has further amplified their utility, facilitated on-the-go diagnosis and thus ensuring timely medical intervention. Moreover, the ongoing research and development activities are anticipated to bring forth new advancements, like the advent of AI-driven predictive analytics and real-time imaging, propelling the CT scanners market in the US. With the aging population and the increasing emphasis on preventive healthcare, the demand for advanced CT scanners is set to witness a substantial surge in the coming years.

### Key Market Challenges

#### Lack of Adequate Reimbursement

In the United States, the demand for CT scanners is expected to decline due to the lack of adequate reimbursement policies. These complex medical devices, which provide detailed images of the body's internal structures, require substantial upfront

procurement and maintenance costs. Unfortunately, current reimbursement rates from insurance providers do not adequately cover these expenses, creating financial stress for healthcare providers. In an attempt to cut costs, many hospitals and clinics may therefore reduce their reliance on such expensive diagnostic tools. Additionally, the complex procedural requirements and paperwork associated with claiming reimbursements further deter healthcare providers from investing in CT scanners. The slow and bureaucratic nature of the reimbursement process can result in delayed payments, negatively impacting cash flows and creating financial instability. As a result of these economic pressures, the demand for CT scanners in the United States is anticipated to decrease, a trend that could have far-reaching implications for patient care and the broader healthcare industry.

### Stringent Regulatory Framework

In the United States, the increasing stringency of the regulatory environment is anticipated to impact the demand for Computed Tomography (CT) scanners. The Food and Drug Administration (FDA), which oversees the approval and regulation of these medical devices, has implemented more rigorous standards and requirements. These stricter regulations aim to ensure patient safety by controlling radiation doses and improving image quality. However, they also imply a higher cost of compliance for manufacturers, who may pass these expenses onto healthcare providers, thus increasing the purchase cost of CT scanners. Additionally, the new, more stringent post-market surveillance requirements mean that providers must dedicate more resources to maintain regulatory compliance after purchasing a device. This increased financial and resource burden could deter some healthcare providers, especially smaller institutions, from purchasing new CT scanners, contributing to a potential decrease in demand. Finally, the stricter regulatory environment can also lengthen the time it takes for a new CT scanner model to reach the market, further inhibiting the demand. Thus, while these regulations undeniably enhance patient safety and device efficiency, they may also inadvertently curb the demand for CT scanners within the United States.

### Key Market Trends

#### Rise In the Various End-Use Applications of CT scans

The rise in varied end-use applications of CT scans is anticipated to propel the demand for CT scanners within the United States. It's driven largely by the heightened need in diverse sectors like healthcare, research, and industry. Within healthcare, the surge in chronic diseases, aging populations, and the necessity of early diagnosis are major

factors increasing the utility of CT scans. The unparalleled ability of CT scanners to provide intricate details of the body's internal structures has made them indispensable in diagnosing conditions such as cancer and cardiovascular diseases. In research, CT scanners, particularly micro-CT scanners, have become vital tools, aiding scientists in studying the minute details of specimens in disciplines like archaeology, geology, and material science. Industrial sectors are also leveraging the precise imaging capabilities of CT scanners for quality control and failure analysis. This widespread application across different sectors signifies a promising growth trajectory for the CT scanner market in the United States.

### Growing Demand of Advanced Imaging Systems

The burgeoning demand for advanced imaging systems is anticipated to drive an increased need for CT scanners within the United States. A myriad of factors, including a growing elderly population, a rising incidence of chronic diseases, and enhanced healthcare investment, are contributing to this surge. CT scanners, with their ability to provide detailed and precise images of internal body structures have become indispensable in modern healthcare. They enable accurate diagnosis, guiding treatment plans and facilitating early disease detection. Furthermore, ongoing advancements in technology, such as the development of portable CT scanners and the incorporation of AI, have increased the scope of their application. These technological innovations not only enhance image quality but also significantly reduce scanning time, thus improving patient comfort and compliance. Additionally, the widespread acceptance of these tools by healthcare professionals due to their reliability and efficiency substantiates the projected growth. Therefore, considering the escalating need for superior imaging techniques in the face of increasing health concerns, the demand for CT scanners in the United States is predicted to escalate.

### Segmental Insights

#### Technology Insights

Based on the Technology, the 64-Slice technology segment is anticipated to dominate. This is primarily attributed to its optimal balance of cost and performance, which allows for a comprehensive range of diagnostic applications. The 64-Slice CT scanner offers exceptional high-resolution imaging capabilities, providing healthcare professionals with detailed insights for a multitude of clinical tasks. From routine examinations to advanced cardiac applications, the 64-Slice technology stands out as an excellent choice. With its ability to capture high-quality images of the human body, it enables precise and

accurate diagnoses. Moreover, its advanced imaging capabilities facilitate the detection of even the smallest abnormalities, leading to improved patient outcomes.

Despite the emergence of higher slice technologies, such as 128 & Above Slice, the 64-Slice CT scanner continues to be a preferred choice in healthcare facilities across the country. Its relatively lower cost and widespread adoption contribute to its ongoing popularity and utilization. Additionally, the 64-Slice CT scanner's proven track record in delivering accurate results further enhances its reputation among medical professionals. Furthermore, the versatility of the 64-Slice CT scanner extends beyond traditional diagnostic applications. Its ability to perform non-invasive imaging procedures reduces the need for more invasive diagnostic methods, improving patient comfort and reducing healthcare costs. This makes it an attractive option for healthcare providers aiming to deliver efficient and cost-effective care.

### Modality Insights

Based on the Modality, the fixed CT scanners segment is expected to maintain its dominance in the United States CT Scanners Market. This can be attributed to several factors, including the high adoption rate of fixed CT scanners by hospitals and diagnostic centers. These scanners are favored for their advanced features, improved image quality, and their ability to handle a higher volume of CT scans efficiently. The reliability and accuracy of fixed CT scanners make them an indispensable tool in the healthcare industry, enabling healthcare professionals to provide more precise diagnoses and better patient care. With their ability to capture detailed images of internal structures, fixed CT scanners allow for early detection of diseases and abnormalities, leading to timely interventions and improved treatment outcomes.

As technology continues to advance, we can expect further enhancements in fixed CT scanners, making them even more indispensable in the future. This includes developments in image resolution, faster scanning times, and improved patient comfort during the scanning process. The ongoing research and innovation in the field of CT scanners aim to optimize diagnostic capabilities and expand the range of conditions that can be effectively diagnosed using this imaging modality. The dominance of fixed CT scanners in the United States CT Scanners Market is expected to persist due to their advanced features, high adoption rate, and the invaluable benefits they offer to healthcare professionals and patients alike. The continuous advancements in this technology will further elevate the role of fixed CT scanners in revolutionizing healthcare diagnostics and improving patient outcomes.



## Regional Insights

In the United States, the region anticipated to dominate the CT Scanners Market is the Northeast. This region boasts exceptional healthcare infrastructure, including state-of-the-art medical facilities and renowned research institutions. With a high concentration of key market players, such as leading manufacturers and healthcare providers, the Northeast is at the forefront of technological advancements in the field of medical imaging. Moreover, the Northeast region's commitment to healthcare is reflected in its substantial healthcare expenditure, which allows for continuous innovation and adoption of cutting-edge technologies. As a result, the demand for CT Scanners in this region is expected to witness significant growth in the coming years.

Furthermore, the increasing prevalence of chronic diseases, coupled with the aging population in the Northeast, further drives the demand for CT Scanners. These advanced imaging devices play a crucial role in the accurate diagnosis and treatment of various medical conditions, enabling healthcare professionals to provide precise and personalized care to patients. The Northeast region's dominance in the CT Scanners Market can be attributed to its advanced healthcare infrastructure, concentration of key market players, increasing healthcare expenditure, and the growing burden of chronic diseases and aging population.

## Key Market Players

GE Healthcare

Philips Healthcare (USA)

Medtronic USA, Inc.

Siemens Medical Solutions USA Inc.

Accuray Incorporated

Canon Medical Systems USA, Inc.

Shimadzu Medical Systems USA

Fujifilm Medical Systems U.S.A., Inc.

Hitachi Medical Systems America Inc.

Samsung Neurologica Corporation

Report Scope:

In this report, the United States CT Scanners Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

United States CT Scanners Market, By Technology:

16-Slice

32-Slice

8-Slice

64-Slice

128 & Above Slice

United States CT Scanners Market, By Modality:

Fixed

Mobile

United States CT Scanners Market, By Device Architecture:

C-arm

O-arm

United States CT Scanners Market, By Application:

Cardiology

Oncology



Neurology

Others

United States CT Scanners Market, By End User:

Diagnostic Centers

Hospitals

Others

United States CT Scanners Market, By Region:

Northeast Region

Midwest Region

West Region

South Region

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the United States CT Scanners Market.

Available Customizations:

United States CT Scanners Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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