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Dual And Multi Energy Computed Tomography Market Size, Share & Trends Analysis Report By Type (Prospective, Retrospective), By End-use (Ambulatory Imaging Centers, Hospitals), By Application, By Region, And Segment Forecasts, 2023 - 2030

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Abstracts

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Dual And Multi Energy Computed Tomography Market Growth & Trends

The global dual and multi energy computed tomography market size is expected to reach USD 1.51 billion by 2030, registering a CAGR of 7.3% over the forecast period, according to a new report by Grand View Research, Inc. Continuous focus on the introduction of technologically advanced devices, increasing chronic disorders like cancer, orthopedics, cardiological or neurological conditions, and increasing prevalence of aging population, are expected to propel the growth of the industry. According to the data from the National Institutes of Health (NIH), patients aged 65 years and above undergo diagnostic imaging at a rate twice or thrice that of the younger population.

Dual Source Computed Tomography (DSCT) is gaining large scope in recent times due to improved temporal resolution for ECG-synchronized cardiac scanning, improved spectral separation by additional pre-filtration of the high-kV beam, reduced cross-scattering, and improved dual-energy contrast. The system uses two X-ray tubes and two detectors at 90°. DSCT can be operated at twice the spiral pitch of single-source CT. The dual-source CT allows the interrogation of materials that have different attenuation properties at different energies. In recent years, there has been increased utilization of Dual-energy CT (DECT) in diagnostic imaging, mainly due to a reduction of effective radiation dose and lower intravenous contrast dose requirement in DECT imaging compared to conventional CT.

Dual And Multi Energy Computed Tomography Market Report Highlights

Asia Pacific accounted for the largest market share in 2022. This can be attributable to the increasing incidence of chronic conditions and the high adoption of advanced imaging modalities.

The oncology application segment accounted for the largest share in 2022

The hospital end-use segment accounted for the largest share in 2022 due to ongoing research studies and economic capabilities

The COVID-19 pandemic led to a decline in research activities, the closure of universities & academic institutions, and a decline in clinical trial activities. The fear of virus spread also declined any diagnostic or surgical activities at end-use settings

The economic crunch at hospitals and diagnostic centers or clinics led to the reduced adoption of software and systems for non-invasive diagnosis. Thus, the pandemic led to a decline in the market in 2020

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