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Cone Beam Computed Tomography Market Forecasts to 2034 – Global Analysis By Product Type (Panoramic X-ray Scanner, Cephalometric X-ray Scanner and Other Product Types), Detector Type (Image Intensifier Detector, Flat-Panel Imager Detector and Other Detector Types), Patient Position (Standing/Seated Position, Seated Position and Supine Position), Application, End User and by Geography

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Abstracts

According to Stratistics MRC, the Global Cone Beam Computed Tomography Market is accounted for $856.8 million in 2026 and is expected to reach $2480.4 million by 2034 growing at a CAGR of 14.2% during the forecast period. A specialized medical imaging method called cone beam computed tomography (CBCT) offers precise, three-dimensional images of anatomical structures. A cone-shaped X-ray beam is used in CBCT, in contrast to traditional CT scans, to obtain a complete set of images in a single rotation around the patient. With this technology, precise visualization of the teeth, jaw, and surrounding tissues is possible, making it especially useful in dental and maxillofacial applications.

According to the American Academy of Oral and Maxillofacial Radiology (AAOMR), Cone Beam Computed Tomography (CBCT) has become an invaluable imaging modality in dentistry, providing clinicians with detailed three-dimensional information for enhanced diagnostic accuracy and improved treatment planning in oral and maxillofacial care.

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Market Dynamics:

Driver:

Growing need for dental applications

The capacity of cone beam computed tomography (CBCT) to produce precise three-dimensional (3D) images of the oral and maxillofacial regions is driving up demand for CBCT in dental applications. For precise diagnosis and treatment planning in intricate dental procedures like implant placement, root canal therapy, and orthodontic evaluations, dentists are depending more and more on computed tomography (CBCT). Moreover, dental practitioners looking for improved diagnostic capabilities choose this technology because of its high-resolution imaging and low radiation exposure.

Restraint:

High expense repercussions

Widespread adoption of CBCT technology may be severely hampered by the equipment's initial cost and ongoing operating expenses, especially for smaller medical facilities and dental offices. Accessibility may be restricted by the cost of CBCT machine acquisition, installation, and maintenance, particularly in areas with low financial resources. Furthermore, investigating funding sources, fostering teamwork, and pushing the creation of more affordable CBCT solutions are some of the steps being taken to address these cost-related issues.

Opportunity:

Growing use of telemedicine

A growing opportunity for CBCT is presented by the trend of telemedicine and remote healthcare services. Diagnostic imaging and consultations can be conducted remotely thanks to the mobility and accessibility of CBCT systems and the progress made in telemedicine technology. Moreover, healthcare providers can reach a larger patient base and improve overall healthcare delivery by doing this, which is especially important in areas with limited access to specialized healthcare facilities.

Threat:

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Issues with radiation exposure

The continued worry about radiation exposure is one of the main challenges facing the cone beam computed tomography (CBCT) market. Even though CBCT typically entails lower radiation dosages than traditional CT scans, the cumulative effect of repeated imaging procedures causes anxiety, especially in patients and medical professionals. For CBCT to be widely accepted, finding a balance between gathering diagnostic data and reducing radiation risks is still crucial.

Covid-19 Impact:

The COVID-19 pandemic has had a major effect on the market for cone beam computed tomography (CBCT), disrupting supply chains, manufacturing, and healthcare delivery. A temporary decrease in CBCT system installations was caused by a combination of logistical challenges and the initial slowdown in elective dental and medical procedures. But the pandemic has also brought attention to how crucial cutting-edge imaging technologies are for precise diagnosis and treatment planning, which has led to a renewed emphasis on CBCT during the post-pandemic recovery period. Additionally, the design of CBCT systems, which prioritizes user-friendly interfaces and streamlined workflows to reduce physical contact, may be influenced by the greater awareness of infection control protocols.

The Flat-Panel Imager Detector segment is expected to be the largest during the forecast period

The flat-panel imager detector market segment has the largest share. Compared to image intensifier detectors, flat-panel imagers have become more popular because of their improved image quality, increased sensitivity, and quicker image acquisition time. With the use of a digital sensor array, flat-panel detectors can directly convert X-rays into electronic signals for more accurate and thorough imaging. These detectors, which provide benefits like enhanced spatial resolution and the capacity to capture dynamic images, are essential parts of contemporary CBCT systems. Furthermore, flat-panel imager detectors are widely used, which highlights their critical role in improving diagnostic capabilities in a variety of medical and dental applications.

The Imaging Centers segment is expected to have the highest CAGR during the forecast period

In the cone beam computed tomography (CBCT) market, imaging centers are expected

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to grow at the highest CAGR. Imaging centers are expanding due to the rising prevalence of complex medical and dental conditions and the growing demand for advanced diagnostic imaging services. With their cutting-edge CBCT equipment, these centers provide excellent imaging services for a variety of medical and dental needs. Moreover, imaging centers are growing significantly because they draw patients who are looking for accurate and thorough three-dimensional scans.

Region with largest share:

The largest market share is held by the North American region. This dominance is ascribed to the early adoption of cutting-edge medical imaging technologies, a well-established healthcare infrastructure, and high awareness levels among healthcare professionals. Oral and maxillofacial surgery, orthopedics, and general diagnostic imaging are just a few of the medical and dental applications in North America that have a strong demand for CBCT systems. Additionally, the region's leading position is also a result of large investments in research and development and favourable reimbursement policies.

Region with highest CAGR:

The cone beam computed tomography (CBCT) market is expected to grow at the highest CAGR in the Asia-Pacific region. The region's need for advanced imaging technologies is being driven by rising healthcare infrastructure investments and the increasing prevalence of dental and maxillofacial disorders. The use of CBCT systems for accurate diagnosis and treatment planning is being fuelled by rising patient and healthcare professional awareness as well as an aging population. Furthermore, the region's rapid growth is also attributed to encouraging government initiatives, economic expansion, and a rise in healthcare spending.

Key players in the market

Some of the key players in Cone Beam Computed Tomography market include J. Morita Mfg. Corp, Fussen Group, Curve-Beam LLC, Danaher Corporation, Asahi RoEntgen Ind. Co., Ltd., Cefla Group, Planmeca Group, Vatech Co., Ltd., Prexion Corporation, Dentsply Sirona Inc and Carestream Health, Inc..

Key Developments:

In August 2023, Science and medical technology firm Danaher announced that it has

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entered into an agreement to acquire Abcam, a Cambridge, U.K.-based supplier of antibodies, reagents, biomarkers, and assays. Under the agreement, Danaher will acquire all outstanding Abcam shares for $24 per share in cash, with a total enterprise value of approximately $5.7 billion, including Abcam's assumed debts and net of acquired cash. Danaher plans to fund the acquisition using cash on hand and proceeds from the issuance of commercial paper.

In April 2023, Planmeca Expands AI Capabilities with Pearl Integration. Pearl and Planmeca announced plans to integrate Pearl's Second Opinion disease detection capabilities within Planmeca are robust imaging software platform, Planmeca Romexis.

In October 2022, Medical imaging companies CurveBeam, LLC and StraxCorp, Ltd., announced that on Oct. 12, 2022, they completed the previously announced merger. Under the new name CurveBeam AI, Ltd., the company expands CurveBeam's financially viable point-of-care imaging solutions into the bone health space, and springboards artificial intelligence (AI) driven applications for weight bearing CT (WBCT) imaging.

Product Types Covered:

- Panoramic X-ray Scanner
- Cephalometric X-ray Scanner
- Other Product Types

Detector Types Covered:

- Image Intensifier Detector
- Flat-Panel Imager Detector
- Other Detector Types

Patient Positions Covered:

- Standing/Seated Position

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Seated Position

Supine Position

Applications Covered:

Orthodontics

Endodontics

Periodontics

General Dentistry

Temporomandibular Joint (TMJ) Disorders

Other Applications

End Users Covered:

Imaging Centers

Diagnostic Facilities

Research Facilities

Hospitals

Dental Clinics

Other End Users

Regions Covered:

North America

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- US
- Canada
- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

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Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

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Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Contents

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10 GLOBAL CONE BEAM COMPUTED TOMOGRAPHY MARKET, BY GEOGRAPHY

+357 96 030922
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11 KEY DEVELOPMENTS

12 COMPANY PROFILING

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List Of Tables

LIST OF TABLES

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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