

Cone Beam CT Scanner (CBCT) Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

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Abstracts

The Global Cone Beam CT Scanner (CBCT) Market, valued at USD 1.4 billion in 2024, is projected to grow at a robust CAGR of 6.5% from 2025 to 2034. This market expansion is being driven by the increasing prevalence of dental disorders and the expanding use of CBCT technology across dental practices. As the demand for advanced imaging solutions rises, CBCT scanners have become indispensable in diagnosing a variety of dental conditions and supporting more accurate, minimally invasive treatments. The aging population, especially in developed regions such as North America and Europe, is facing an uptick in dental issues, further boosting market growth. These scanners provide highly detailed 3D imaging that enables more precise diagnoses, reducing the need for exploratory surgeries and improving patient outcomes. This growing reliance on CBCT technology is reshaping diagnostic practices and treatment planning, fueling market adoption across the healthcare sector.

The rise of digital healthcare infrastructure and advancements in precision diagnostics have fueled the demand for CBCT scanners, not only in dental practices but also in orthopedic settings. These scanners are critical tools for assessing complex bone structures and conditions that require highly detailed imaging. CBCT technology's ability to capture clear, 3D images of the body's intricate anatomy is enhancing its use beyond dental imaging, expanding its scope into other medical fields. Furthermore, as the market continues to evolve, healthcare professionals are investing in these scanners to improve the accuracy and effectiveness of their procedures, thereby increasing the demand for CBCT systems worldwide.

By product, the CBCT scanner market is segmented into panoramic X-ray scanners and cephalometric X-ray scanners. In 2024, panoramic X-ray scanners led the market,

generating USD 928.5 million in revenue. These scanners are a cornerstone of dental diagnostics, providing a comprehensive view of the oral cavity, including teeth, jawbones, and surrounding tissues. This functionality is essential for orthodontic planning, general dental assessments, and identifying conditions such as cavities and tumors, further cementing their place as a vital tool in modern dental care.

The market is also categorized by application, with the dental sector holding the dominant share of 69.2% in 2024. This segment's dominance is attributed to the widespread adoption of CBCT technology for procedures such as implantology, endodontics, and orthodontics. Dental professionals heavily rely on the high-definition 3D imaging these scanners provide, ensuring accurate diagnoses and optimal treatment planning for patients.

In the U.S., the CBCT scanner market is expected to reach USD 861.8 million by 2034, up from USD 453.6 million in 2024. The significant adoption of advanced imaging solutions, particularly in dental and maxillofacial specialties, is driving the growth in this region. The increasing patient demand for dental implants, orthodontic care, and orthopedic evaluations further emphasizes the need for CBCT scanners to provide precise 3D imaging for improved patient care and treatment outcomes. With investments in healthcare infrastructure and a focus on precision diagnostics, the U.S. market for CBCT scanners is set for continued growth over the next decade.

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market scope and definitions
- 1.2 Research design
 - 1.2.1 Research approach
 - 1.2.2 Data collection methods
- 1.3 Base estimates and calculations
 - 1.3.1 Base year calculation
 - 1.3.2 Key trends for market estimation
- 1.4 Forecast model
- 1.5 Primary research and validation
 - 1.5.1 Primary sources
 - 1.5.2 Data mining sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Industry impact forces
 - 3.2.1 Growth drivers
 - 3.2.1.1 Rising penetration of technologically advanced medical equipment
 - 3.2.1.2 Rising prevalence of dental disorder
 - 3.2.1.3 Increase in application of CBCT in dental practices
 - 3.2.2 Industry pitfalls and challenges
 - 3.2.2.1 High cost of devices
 - 3.2.2.2 Availability of alternative diagnostic techniques
- 3.3 Growth potential analysis
- 3.4 Regulatory landscape
 - 3.4.1 U.S.
 - 3.4.2 Europe
- 3.5 Technological landscape
- 3.6 Comparative analysis of type of CBCT scanners
- 3.7 Gap analysis
- 3.8 Porter's analysis

3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive analysis of major market players
- 4.4 Competitive positioning matrix
- 4.5 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES AND FORECAST, BY PRODUCT, 2021 – 2034 (\$ MN)

- 5.1 Key trends
- 5.2 Panoramic X-ray scanner
- 5.3 Cephalometric X-ray scanner

CHAPTER 6 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2021 – 2034 (\$ MN)

- 6.1 Key trends
- 6.2 Dental
 - 6.2.1 Orthodontics
 - 6.2.2 Endodontics
 - 6.2.3 Periodontics
 - 6.2.4 Maxillofacial imaging
 - 6.2.5 General dentistry
 - 6.2.6 Other dental applications
- 6.3 Orthopedic
- 6.4 Other applications

CHAPTER 7 MARKET ESTIMATES AND FORECAST, BY PATIENT POSITION, 2021 – 2034 (\$ MN)

- 7.1 Key trends
- 7.2 Standing
- 7.3 Supine
- 7.4 Seated

CHAPTER 8 MARKET ESTIMATES AND FORECAST, BY END USE, 2021 – 2034 (\$ MN)

- 8.1 Key trends
- 8.2 Hospitals
- 8.3 Dental clinics
- 8.4 Other End Use

CHAPTER 9 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 – 2034 (\$ MN)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.2 UK
 - 9.3.3 France
 - 9.3.4 Spain
 - 9.3.5 Italy
 - 9.3.6 Poland
 - 9.3.7 Switzerland
 - 9.3.8 Sweden
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 Japan
 - 9.4.3 India
 - 9.4.4 Australia
 - 9.4.5 South Korea
 - 9.4.6 Indonesia
 - 9.4.7 Thailand
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
 - 9.5.3 Argentina
 - 9.5.4 Colombia
 - 9.5.5 Chile
 - 9.5.6 Peru

9.6 Middle East and Africa

9.6.1 South Africa

9.6.2 Saudi Arabia

9.6.3 Kuwait

9.6.4 UAE

9.6.5 Turkey

9.6.6 Egypt

9.6.7 Israel

9.6.8 Qatar

CHAPTER 10 COMPANY PROFILES

10.1 AB-CT (Advanced Breast-CT)

10.2 Asahi Roentgen

10.3 Brainlab

10.4 Carestream Health

10.5 Cefla Medical Equipment

10.6 CurveBeam AI

10.7 Dentsply Sirona

10.8 Genoray

10.9 Hefei Meyer Optoelectronic Technology

10.10 iCRco

10.11 idetec Medical Imaging

10.12 J. Morita Corporation

10.13 KaVo Dental

10.14 Koninklijke Philips

10.15 Planmeca Group

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