

## **Brazil Digital X-Ray - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029**

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### **Report description:**

The Brazil Digital X-Ray Market size is estimated at USD 359.06 million in 2024, and is expected to reach USD 508.56 million by 2029, growing at a CAGR of 7.21% during the forecast period (2024-2029).

The pandemic had an adverse effect on the studied market in the country. The number of disease diagnoses and identifications made possible by screening tests also fell during the epidemic. Additionally, the effect of COVID-19 on endodontic therapy was examined in a research article titled "Endodontic treatment during the COVID-19 pandemic - perception, and behavior of dental practitioners" published in the National Library of Medicine in 2021. In order to protect professionals and patients from the COVID-19 epidemic, a cross-sectional study employed an online questionnaire to collect information regarding adjustments that may be made to endodontic therapy. 1,105 Brazilians in all participated in the study. More than 90% of respondents said that some clinical practices needed to change since dentists have a high risk of COVID-19 infection. Such laws restricted dental procedures, which had an impact on the nation's adoption of digital X-ray machines. However, the Brazilian government is currently working to stop the spread of COVID-19 and has implemented precautionary steps to stop infections at various healthcare facilities. Essential services that were ignored during the outbreak are being resumed, including diagnostic procedures, curative therapies, and screening testing. Furthermore, a study conducted by Brazilian researchers and published in the IEEE/CAA Journal of Automatica Sinica, a publication of the IEEE and the Chinese Association of Automation, in January 2021 claimed that the use of X-rays combined with artificial intelligence can detect COVID-19 in patient's chest X-rays with an accuracy of between 95.6 and 98.5%. Such studies significantly ease the utilization of digital X-ray imaging in patients with COVID-19, which propels market expansion in Brazil. The patient's usage of digital X-ray imaging is predicted to increase as a result of these initiatives, propelling market growth in the coming years.

The increasing prevalence of diseases such as dental disorders and research studies are expected to increase the market growth.

The prevalence rate of dental caries among 5-year-old Brazilian children was 49.8%, with a 21.2% difference between prevalence in North and Southeast Brazil, according to a study titled "Regional differences in early childhood dental caries in 5-year-old Brazilian children and associated factors" that was published in January 2021. Since digital X-rays can be utilized for the detection of conditions related to dental caries, the high prevalence rate of dental caries in the nation is assisting in the market's healthy expansion. According to a study titled "System dynamics modeling for tooth decay treatment in Brazilian children" that was published in February 2020, it was discovered that chronic dental diseases are still among the most prevalent chronic illnesses that primarily affect children from low-income families and are still thought to be the main cause of tooth loss in adulthood in Brazil. This is helping to accelerate the market growth for digital X-ray equipment used to diagnose various conditions throughout time. In July 2020, the DR 400 system from Agfa was purchased by Santa Casa of Avare Hospital in Brazil to enhance the effectiveness and caliber of the imaging workflow. The 120-year-old hospital has 174 beds and a complete imaging department. Similarly, in December 2020, for its Radiology division, the Hospital Marcio Cunha in Ipatinga, Minas Gerais, Brazil, bought a DR 100e Digital DR System from Agfa. The device will simplify hospital procedures with the MUSICA software, improving image quality and lowering the dose. Thus, the abovementioned factors are expected to increase market growth.

However, the high cost of the equipment is expected to hinder the market growth.

#### Brazil Digital X-Ray Market Trends

##### Direct Radiography Segment is Expected to Hold a Significant Market Share Over the Forecast Period

A sort of cutting-edge X-ray inspection equipment known as digital radiography (DR) or direct digital radiography quickly generates a digital radiographic image on a computer. The rising incidence of cancer disorders and endeavors by major market participants are some of the factors impacting this industry's growth in Brazil. Brazil reported 592,212 new instances of cancer in 2020, and Globocan 2020 predicts that by 2040, there would be 994,823 new cases. The predicted rise in cancer cases would have an impact on the nation's use of digital x-rays, which are used to diagnose many different types of cancer. The market under consideration is therefore expected to grow significantly during the next years. The market is expanding as a result of more direct radiography equipment being installed in hospitals. For instance, a press release from July 2020 states that the Hospital das Clinicas of the Federal University of Minas Gerais State in Brazil (HC-UFMG) recently purchased an Agfa DX-D 100 Direct Radiography (DR) to boost the number of bedside X-ray tests it can perform. Similar to this, the Hospital Municipal de Simes Filho in Bahia, Brazil purchased two Agfa DR 100e Direct Radiography (DR) equipment in November 2021 for increased productivity and improved bedside imaging examination quality. Additionally, Agfa DX-D 100 Direct Radiography (DR) devices, which would enhance workflow and raise exam quality, were purchased by Suzano Auxiliary Hospital in Brazil in December 2020. In Brazil's market for this application, there are numerous activities happening, including product releases and approvals, partnerships, collaborations, mergers, and acquisitions. For instance, Agfa declared in June 2020 that it had partnered with VMI Technologies to begin producing digital radiography in Brazil.

Therefore, it is anticipated that the aforementioned improvements will further enhance the market growth in this sector.

#### Brazil Digital X-Ray Industry Overview

Brazil digital x-ray market is moderately competitive and consists of several major players. Some of the companies that are currently dominating the market are GE Healthcare, Fujifilm Holdings Corporation, Canon Medical Systems Corporation, Shimadzu Corporation, and Koninklijke Philips NV among others.

#### Additional Benefits:

- The market estimate (ME) sheet in Excel format

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