

# Digital X-ray Market by Portability (Fixed, Portable), Applications (Orthopedic, Dental, Diagnostic, Cancer, Pediatric), Technology (Direct, Computed), System (Retrofit, New), End Users, Price Range, Type, and Region - Global Forecast to 2029

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## Abstracts

The global digital X-ray market is projected to reach USD 6.6 billion by 2029 from USD 5.4 billion in 2024, at a CAGR of 4.0% from 2024 to 2029. The rising prevalence of chronic diseases, coupled with increasing demand for early and accurate diagnosis, is driving the adoption of digital X-ray systems in healthcare facilities worldwide. Moreover, ongoing technological advancements, coupled with favorable government initiatives and investments in healthcare infrastructure, are further fueling market growth. Overall, these factors collectively contribute to the expanding digital X-ray market as it continues to revolutionize medical imaging practices.

“The portable X-ray system segment of product segment held the largest share of the market in 2023”

Based on portability, the digital X-ray market is segmented into fixed and portable X-ray systems. This growth is primarily attributed to several factors. Firstly, portable X-ray systems offer the advantage of mobility, allowing healthcare providers to perform imaging procedures at the point of care, such as bedside imaging in hospitals, nursing homes, and remote healthcare settings. This portability facilitates efficient patient management, especially for critically ill or immobile patients who cannot be easily transported to radiology departments.

“The new digital segment segment is projected to register the highest CAGR during the forecast period.”

Based on system, the digital X-ray market is segmented into new digital and retrofit digital X-ray systems. The new digital segment accounted for the largest market share in 2023. The integration of cutting-edge technologies like AI and machine learning in new digital systems further augments their diagnostic capabilities, driving their adoption among healthcare providers. Moreover, favorable government regulations and incentives promoting the adoption of digital imaging technologies, coupled with the growing demand for advanced healthcare services, are fueling the growth of the new digital segment in the digital X-ray market.

“The hospital segment for end user segment is projected to register a significant CAGR during the forecast period.”

On the basis of end user, the digital X-ray market is segmented into hospitals, diagnostic centers, orthopedic clinics, dental care centers and other end users. The hospital segment accounted for a significant share of the digital X-ray market in 2023. An aging population worldwide is contributing to an increased incidence of musculoskeletal issues, leading to a greater need for orthopedic solutions. Digital X-ray systems offer hospitals numerous advantages, including faster image acquisition, enhanced image quality, and the ability to integrate with picture archiving and communication systems (PACS) for efficient image storage and retrieval. Moreover, the integration of advanced technologies such as artificial intelligence (AI) in digital X-ray systems enhances diagnostic accuracy and workflow efficiency, further driving their adoption in hospital settings. Additionally, ongoing technological advancements and favorable government initiatives supporting the digitization of healthcare infrastructure are contributing to the increasing adoption of digital X-ray systems in hospitals worldwide.

“The market in the North America region is expected to witness the highest growth during the forecast period.”

The digital X-ray market in the North America region is projected to register a CAGR during the forecast period primarily due to several key factors. Firstly, the region boasts a well-established healthcare infrastructure with high levels of technological adoption, creating a conducive environment for the uptake of advanced medical imaging technologies like digital X-ray systems. Secondly, there is a growing prevalence of chronic diseases, an aging population, and an increasing demand for preventive healthcare services, driving the need for efficient and accurate diagnostic imaging solutions.

A breakdown of the primary participants referred to for this report is provided below:

By Company Type: Tier 1–48%, Tier 2–36%, and Tier 3– 16%

By Designation: Director-level–14%, C-level–10%, and Others–76%

By Region: North America–40%, Europe–32%, Asia Pacific–20%, Latin America–5%, and the Middle East & Africa–3%

The prominent players in the digital X-ray market are Siemens Healthineers (Germany), Koninklijke Philips N.V. (Netherlands), GE Healthcare (US), Canon, Inc. (Japan), Carestream Health (US), FUJIFILM Holdings Corporation (Japan), Shimadzu Corporation (Japan), Agfa-Gevaert Group (Belgium), Samsung Medison (South Korea), Konica Minolta (Japan), and Shenzhen Mindray Bio-Medical Electronics Co. (China) among others.

### Research Coverage

This report studies the digital X-ray market based on technology, price range, systems, portability, type, application, end user, and region. It also covers the factors affecting market growth, analyzes the various opportunities and challenges in the market, and provides details of the competitive landscape for market leaders. Furthermore, the report analyzes micro markets with respect to their growth trends and forecasts the revenue of the market segments with respect to five main regions (and the respective countries in these regions).

### Reasons to Buy the Report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall digital X-ray market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

This report provides insights on the following pointers:

Analysis of key drivers (rising target patient population, growing adoption of digital X-ray imaging devices, technological advancement, and increasing investment, funds, and grants by public-private organizations), restraints (high capital and operational cost, unfavorable regulatory guidelines), opportunities (improving healthcare infrastructure across emerging countries, digital X-ray utilization for breast imaging, promising product pipeline), and challenges (availability of alternate imaging technologies) influencing the growth of the digital X-ray market

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the digital X-ray market

**Market Development:** Comprehensive information about lucrative markets—the report analyses the digital X-ray market across varied regions.

**Market Diversification:** Exhaustive information about new products, untapped geographies, recent developments, and investments in the digital X-ray market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and service offerings of leading players like Siemens Healthineers (Germany), Koninklijke Philips N.V. (Netherlands), GE Healthcare (US), Canon, Inc. (Japan), Carestream Health (US), FUJIFILM Holdings Corporation (Japan), and Shimadzu Corporation (Japan), among others.

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\*Business Overview, Products/Services/Solutions Offered, Recent Developments, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats might not be captured in case of unlisted companies.

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## About

In terms of value, the global digital X-ray market size was estimated at \$4,687.2 million in 2013 and is expected to grow at a CAGR of 13.2% in the next five years. This high growth is attributed to technological advancements, government investments, aging population, prevalence of diseases, and the increasing number of systems being approved.

Furthermore, various awareness programs and conferences are being organized across the globe, which is likely to drive the market growth. However, factors such as lack of reimbursements and stringent regulatory procedures are expected to hinder the market growth.

North America dominates the digital X-ray market. Asia is poised to grow at the highest CAGR during the forecast period owing to the support provided by foreign countries for enhancing diagnostic services. Apart from this, factors such as increased government support and investment by major players in the region are expected to provide required impetus for the growth of this market.

The prominent players in the digital X-ray market are Canon Inc (Japan), Carestream Health (U.S.), Fujifilm Medical systems (Japan), GE Healthcare (U.K.), Hitachi Medical Corporation (Japan), Hologic, Inc. (U.S.), Philips Healthcare (Netherlands), Shimadzu Corporation (Japan), Siemens Healthcare (Germany), and Toshiba Medical Systems Corporation (Japan).

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