

# **Handheld X-Ray Imaging Device Market By Application (Dental, Orthopedic, Others) , By End User (Hospitals and Clinics, Outpatient Facilities, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

The handheld X-ray imaging device market was valued at \$0.8 billion in 2023, and is projected to reach \$2.3 billion by 2033, growing at a CAGR of 10.7% from 2024 to 2033.

A handheld X-ray imaging device is a portable, lightweight, and easy-to-use diagnostic tool designed for medical, dental, or industrial applications. It enables the user to capture X-ray images without the need for a fixed X-ray machine or dedicated radiography room. These devices are often battery-powered, offering mobility and convenience, especially in settings where traditional X-ray machines are impractical, such as in-home care, emergency situations, or remote locations.

The growth of the global handheld X-ray imaging device market is driven by surge in demand for portable, easy-to-use diagnostic tools in medical, dental, and veterinary fields, especially in remote or resource-limited environments. A study by the World Health Organization in 2022 reports that 60% of the world's population lacks access to basic radiography services due to infrastructure limitations in developing regions. Handheld X-ray devices are increasingly viewed as a solution to bridge this healthcare gap, enabling portable and cost-effective diagnostic imaging in underserved areas. Moreover, alarming increase in the prevalence of chronic conditions such as osteoporosis, dental disorders, and injuries supports the growing demand for handheld X-ray devices for fast and convenient diagnostics. A study by the World Health Organization published in 2023 claimed that chronic diseases are responsible for 41 million deaths each year. Furthermore, increase in application of handheld X-ray

imaging device in dental care to capture quick images in a dental chair setting acts as the key driving force of the global market. Moreover, rise in home healthcare services for elderly and immobile patients is augmenting the demand for portable diagnostic devices, including handheld X-rays, as they allow for immediate imaging without the need for patients to visit medical facilities. However, high cost associated with handheld X-ray devices, especially those with advanced digital features, restrains the market growth. In addition, concerns about the potential radiation exposure to both users and patients hamper the market growth. On the contrary, innovations such as digital X-ray systems, better image resolution, and reduced radiation exposure are contributing to the adoption of handheld X-ray devices. Miniaturization and improvements in battery life have further enhanced their usability. Such developments are expected to offer lucrative opportunities for the expansion of the global market during the forecast period.

The global handheld X-ray imaging device industry is segmented into application, end user, and region. On the basis of application, the market is classified into dental, orthopedic, and others. Depending on end user, it is divided into hospitals & clinics, outpatient facilities, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

### Key Findings

On the basis of application, the dental segment is expected to dominate the market from 2024 to 2033.

By end user, the hospitals & clinics segment is anticipated to register the highest growth during the forecast period.

Region wise, North America held the largest market share in terms of revenue in 2023, and is expected to dominate the market during the forecast period.

### Competition Analysis

Competitive analysis and profiles of the major players in the global handheld X-ray imaging device market include Carestream Health, Inc., GE Healthcare, Philips Healthcare, Siemens Healthineers AG, Hologic, Inc., Fujifilm Holdings Corporation, Konica Minolta, Inc., Shimadzu Corporation, Canon Medical Systems Corporation, and Digital X-Ray Solutions, Inc. These major players have adopted various key development strategies such as business expansion, new product launches, and

partnerships to strengthen their foothold in the global market.

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## Key Market Segments

### By Application

Dental

Orthopedic

Others

### By End User

Hospitals and Clinics

Outpatient Facilities

Others

### By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Carestream Health, Inc.

GE Healthcare

Philips Healthcare

Siemens Healthineers AG

Hologic, Inc.

Fujifilm Holdings Corporation

Konica Minolta, Inc.

Shimadzu Corporation

Canon Medical Systems Corporation

Digital X-Ray Solutions, Inc

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