

# **U.S. X-ray Systems Market Size, Share & Trends Analysis Report By Modality (Radiography, Fluoroscopy), By Technology (Digital Radiography, Computed Radiography), By Mobility, By End Use, By Country, And Segment Forecasts, 2025 - 2030**

<https://marketpublishers.com/r/UF51CA713C21EN.html>

Date: March 2025

Pages: 75

Price: US\$ 4,950.00 (Single User License)

ID: UF51CA713C21EN

## **Abstracts**

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### **U.S. X-ray Systems Market Size & Trends**

The U.S. X-ray systems market size was estimated at USD 2.4 billion in 2024 and is expected to grow at a CAGR of 3.0% from 2025 to 2030. The market is growing due to technological advancements, rising chronic disease prevalence, an aging population, and favorable reimbursement policies. Digital radiography and AI-powered imaging improve diagnostic accuracy and efficiency. However, high equipment costs, radiation exposure concerns, and stringent FDA regulations pose challenges. Increasing demand for portable and mobile X-ray systems further drives market expansion, particularly in emergency and outpatient settings.

The market is witnessing increased mergers and acquisitions, with companies strengthening their presence. For instance, in April 2024, Shimadzu Medical Systems USA acquired California X-ray Imaging Services to expand its North American healthcare business.

Regulatory approvals are shaping the market, ensuring safety and innovation. In February 2025, the FDA granted Lumitron's HyperVIEW X-ray system Breakthrough Device designation for breast cancer imaging. HyperVIEW utilizes K-Edge subtraction and laser-Compton X-rays, offering 100 times higher resolution and a potential 3000%

improvement in tumor detection over traditional systems.

Portable X-ray systems are also driving market growth. In January 2025, Oxos Medical secured FDA clearance for its MC2 ultraportable X-ray system, featuring cordless operation, dynamic digital radiography, and low radiation output, reducing infrastructure needs. This follows Oxos' successful MicrC launch in 2021.

Despite strong growth, challenges include high equipment costs, radiation exposure concerns, and stringent FDA regulations. However, the increasing adoption of AI-enhanced imaging and digital radiography is improving diagnostic efficiency and accessibility. With continued technological advancements and regulatory support, the market is poised for further expansion, offering enhanced diagnostic capabilities and improved patient outcomes.

## U.S. X-ray Systems Market Report Segmentation

This report forecasts revenue growth at country levels and analyzes the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the U.S. X-ray systems market report based on modality, technology, mobility, and end use.

### Modality Outlook (Revenue, USD Million, 2018 - 2030)

Radiography

Fluoroscopy

Mammography

### Technology Outlook (Revenue, USD Million, 2018 - 2030)

Digital Radiography

Computed Radiography

### Mobility Outlook (Revenue, USD Million, 2018 - 2030)

Stationary

Mobile

End Use Outlook (Revenue, USD Million, 2018 - 2030)

Hospitals

Diagnostic imaging centers

Other end users

## Contents

### CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation and Scope
- 1.2. Market Definitions
- 1.3. Research Methodology
  - 1.3.1. Information Procurement
  - 1.3.2. Information or Data Analysis
  - 1.3.3. Market Formulation & Data Visualization
  - 1.3.4. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
  - 1.4.1. List of Data Sources

### CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

### CHAPTER 3. U.S. X-RAY SYSTEMS MARKET VARIABLES, TRENDS, & SCOPE

- 3.1. Market Introduction/Lineage Outlook
- 3.2. Market Size and Growth Prospects (USD Million)
- 3.3. Market Dynamics
  - 3.3.1. Market Drivers Analysis
    - 3.3.1.1. Technological advancements
    - 3.3.1.2. Rising prevalence of chronic diseases
    - 3.3.1.3. Growing aging population
  - 3.3.2. Market Restraints Analysis
    - 3.3.2.1. High equipment costs
    - 3.3.2.2. Radiation exposure concerns
- 3.4. U.S. X-ray Systems Market Analysis Tools
  - 3.4.1. Porter's Analysis
    - 3.4.1.1. Bargaining power of the suppliers
    - 3.4.1.2. Bargaining power of the buyers
    - 3.4.1.3. Threats of substitution
    - 3.4.1.4. Threats from new entrants
    - 3.4.1.5. Competitive rivalry

### 3.4.2. PESTEL Analysis

#### 3.4.2.1. Political landscape

#### 3.4.2.2. Economic and Social landscape

#### 3.4.2.3. Technological landscape

#### 3.4.2.4. Environmental landscape

#### 3.4.2.5. Legal landscape

## **CHAPTER 4. U.S. X-RAY SYSTEMS MARKET: MODALITY ESTIMATES & TREND ANALYSIS**

### 4.1. Segment Dashboard

### 4.2. U.S. X-ray Systems Market: Modality Movement Analysis, 2024 & 2030 (USD Million)

### 4.3. Radiography

#### 4.3.1. Radiography Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

### 4.4. Fluoroscopy

#### 4.4.1. Fluoroscopy Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

### 4.5. Mammography

#### 4.5.1. Mammography Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

## **CHAPTER 5. U.S. X-RAY SYSTEMS MARKET: TECHNOLOGY ESTIMATES & TREND ANALYSIS**

### 5.1. Segment Dashboard

### 5.2. U.S. X-ray Systems Market: Technology Movement Analysis, 2024 & 2030 (USD Million)

### 5.3. Digital Radiography

#### 5.3.1. Digital Radiography Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

### 5.4. Computed Radiography

#### 5.4.1. Computed Radiography Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

## **CHAPTER 6. U.S. X-RAY SYSTEMS MARKET: MOBILITY ESTIMATES & TREND ANALYSIS**

### 6.1. Segment Dashboard

### 6.2. U.S. X-ray Systems Market: Mobility Movement Analysis, 2024 & 2030 (USD Million)

### 6.3. Stationary

#### 6.3.1. Stationary Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

### 6.4. Mobile

#### 6.4.1. Mobile Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

## **CHAPTER 7. U.S. X-RAY SYSTEMS MARKET: END USE ESTIMATES & TREND ANALYSIS**

### 7.1. Segment Dashboard

### 7.2. U.S. X-ray Systems Market: End Use Movement Analysis, 2024 & 2030 (USD Million)

### 7.3. Hospitals

#### 7.3.1. Hospitals Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

### 7.4. Diagnostic Imaging Centers

#### 7.4.1. Diagnostic Imaging Centers Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

### 7.5. Others

#### 7.5.1. Others Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

## **CHAPTER 8. COMPETITIVE LANDSCAPE**

### 8.1. Recent Developments & Impact Analysis by Key Market Participants

### 8.2. Company Categorization

### 8.3. Company Heat Map Analysis

### 8.4. Company Profiles

#### 8.4.1. Koninklijke Philips N.V.

##### 8.4.1.1. Company overview

##### 8.4.1.2. Financial performance

##### 8.4.1.3. Product benchmarking

##### 8.4.1.4. Strategic initiatives

#### 8.4.2. Siemens Healthineers AG

##### 8.4.2.1. Company overview

##### 8.4.2.2. Financial performance

##### 8.4.2.3. Product benchmarking

##### 8.4.2.4. Strategic initiatives

#### 8.4.3. GE Healthcare

- 8.4.3.1. Company overview
- 8.4.3.2. Financial performance
- 8.4.3.3. Product benchmarking
- 8.4.3.4. Strategic initiatives
- 8.4.4. Canon Medical Systems
  - 8.4.4.1. Company overview
  - 8.4.4.2. Financial performance
  - 8.4.4.3. Product benchmarking
  - 8.4.4.4. Strategic initiatives
- 8.4.5. Shimadzu Corporation
  - 8.4.5.1. Company overview
  - 8.4.5.2. Financial performance
  - 8.4.5.3. Product benchmarking
  - 8.4.5.4. Strategic initiatives
- 8.4.6. FUJIFILM SonoSite, Inc.
  - 8.4.6.1. Company overview
  - 8.4.6.2. Financial performance
  - 8.4.6.3. Product benchmarking
  - 8.4.6.4. Strategic initiatives
- 8.4.7. Carestream
  - 8.4.7.1. Company overview
  - 8.4.7.2. Financial performance
  - 8.4.7.3. Product benchmarking
  - 8.4.7.4. Strategic initiatives
- 8.4.8. Mindray Medical International Limited
  - 8.4.8.1. Company overview
  - 8.4.8.2. Financial performance
  - 8.4.8.3. Product benchmarking
  - 8.4.8.4. Strategic initiatives
- 8.4.9. Hologic, Inc
  - 8.4.9.1. Company overview
  - 8.4.9.2. Financial performance
  - 8.4.9.3. Product benchmarking
  - 8.4.9.4. Strategic initiatives
- 8.4.10. AGFA
  - 8.4.10.1. Company overview
  - 8.4.10.2. Financial performance
  - 8.4.10.3. Product benchmarking
  - 8.4.10.4. Strategic initiatives

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