

Global AI-Enabled Imaging Modalities Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global AI-Enabled Imaging Modalities market size is predicted to grow from US\$ 7318 million in 2025 to US\$ 14740 million in 2032; it is expected to grow at a CAGR of 10.9% from 2026 to 2032.

AI-supported medical imaging refers to hardware and software systems that utilize artificial intelligence technologies (such as deep learning and computer vision) to automatically analyze, detect lesions, quantitatively assess, and assist in the diagnosis of medical images such as X-rays, CT scans, MRIs, and ultrasounds. The aim is to improve the efficiency, accuracy, and standardization of image interpretation. The upstream of its industry chain includes medical imaging equipment manufacturers (such as GE, Siemens, and United Imaging), high-performance computing chips (GPUs/TPUs), and medical data storage and cloud computing service providers. The midstream consists of AI algorithm companies, medical imaging AI software developers, and system integrators. The downstream covers hospital radiology departments, health check-up centers, third-party imaging centers, and primary healthcare institutions. Commercialization is achieved through software licensing, SaaS subscriptions, or bundled sales with equipment. Due to high technological barriers, long clinical validation cycles, and strong compliance requirements, the gross profit margin of mature products generally remains between 60% and 85%, significantly higher than that of traditional medical software.

Currently, AI medical imaging has moved from technological research and development to an accelerated phase of clinical application, achieving large-scale application in areas such as pulmonary nodules, stroke, fractures, breast cancer, and liver diseases. China, the United States, and the European Union have successively established approval pathways for AI software in medical devices (such as NMPA Class III certificates and

FDA SaMD) to promote compliant product launches. The industry is evolving from 'single-disease-assisted detection' to 'full-process intelligent workflow,' deeply integrating into image acquisition, reconstruction, image interpretation, report generation, and follow-up management. At the same time, large-scale models (such as medical vision-language models) are emerging, driving breakthroughs in cross-modal analysis and general image understanding capabilities.

LPI (LP Information)' newest research report, the “AI-Enabled Imaging Modalities Industry Forecast” looks at past sales and reviews total world AI-Enabled Imaging Modalities sales in 2025, providing a comprehensive analysis by region and market sector of projected AI-Enabled Imaging Modalities sales for 2026 through 2032. With AI-Enabled Imaging Modalities sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI-Enabled Imaging Modalities industry.

This Insight Report provides a comprehensive analysis of the global AI-Enabled Imaging Modalities landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on AI-Enabled Imaging Modalities portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI-Enabled Imaging Modalities market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI-Enabled Imaging Modalities and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI-Enabled Imaging Modalities.

This report presents a comprehensive overview, market shares, and growth opportunities of AI-Enabled Imaging Modalities market by product type, application, key players and key regions and countries.

Segmentation by Type:

AI-Enhanced X-ray

AI-Enhanced CT

AI-Enhanced MRI

AI-Enhanced Ultrasound

AI-Enhanced PET/SPECT

Segmentation by AI Function:

Image Reconstruction & Denoising

Lesion Detection & Segmentation

Quantitative Analysis & Biomarker Extraction

Diagnostic Decision Support

Workflow Automation

Segmentation by Deployment Mode:

On-Device AI Imaging

Cloud-Based AI Imaging

Hybrid AI Imaging Solutions

Segmentation by Application:

Oncology Imaging

Cardiovascular Imaging

Neurology & Brain Imaging

Orthopedic & Musculoskeletal Imaging

Abdominal & Pulmonary Imaging

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Philips

Siemens Healthineers AG.

GE HealthCare

Canon, Inc.

Agfa HealthCare

Hologic

Fujifilm

Konica Minolta, Inc.

United Health Imaging

Exo Imaging

Nanox

Butterfly Network, Inc.

Hyperfine

Aidoc

MRId guidance

Synaptiq

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global AI-Enabled Imaging Modalities Market Size (2021-2032)
 - 2.1.2 AI-Enabled Imaging Modalities Market Size CAGR by Region (2021 VS 2025 VS 2032)
 - 2.1.3 World Current & Future Analysis for AI-Enabled Imaging Modalities by Country/Region (2021, 2025 & 2032)
- 2.2 AI-Enabled Imaging Modalities Segment by Type
 - 2.2.1 AI-Enhanced X-ray
 - 2.2.2 AI-Enhanced CT
 - 2.2.3 AI-Enhanced MRI
 - 2.2.4 AI-Enhanced Ultrasound
 - 2.2.5 AI-Enhanced PET/SPECT
 - 2.2.6 AI-Enabled Imaging Modalities Market Size by Type
 - 2.2.6.1 AI-Enabled Imaging Modalities Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.6.2 Global AI-Enabled Imaging Modalities Market Size Market Share by Type (2021-2026)
- 2.3 AI-Enabled Imaging Modalities Segment by AI Function
 - 2.3.1 Image Reconstruction & Denoising
 - 2.3.2 Lesion Detection & Segmentation
 - 2.3.3 Quantitative Analysis & Biomarker Extraction
 - 2.3.4 Diagnostic Decision Support
 - 2.3.5 Workflow Automation
 - 2.3.6 AI-Enabled Imaging Modalities Market Size by AI Function

2.3.6.1 AI-Enabled Imaging Modalities Market Size CAGR by AI Function (2021 VS 2025 VS 2032)

2.3.6.2 Global AI-Enabled Imaging Modalities Market Size Market Share by AI Function (2021-2026)

2.4 AI-Enabled Imaging Modalities Segment by Deployment Mode

2.4.1 On-Device AI Imaging

2.4.2 Cloud-Based AI Imaging

2.4.3 Hybrid AI Imaging Solutions

2.4.4 AI-Enabled Imaging Modalities Market Size by Deployment Mode

2.4.4.1 AI-Enabled Imaging Modalities Market Size CAGR by Deployment Mode (2021 VS 2025 VS 2032)

2.4.4.2 Global AI-Enabled Imaging Modalities Market Size Market Share by Deployment Mode (2021-2026)

2.5 AI-Enabled Imaging Modalities Segment by Application

2.5.1 Oncology Imaging

2.5.2 Cardiovascular Imaging

2.5.3 Neurology & Brain Imaging

2.5.4 Orthopedic & Musculoskeletal Imaging

2.5.5 Abdominal & Pulmonary Imaging

2.5.6 AI-Enabled Imaging Modalities Market Size by Application

2.5.6.1 AI-Enabled Imaging Modalities Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.5.6.2 Global AI-Enabled Imaging Modalities Market Size Market Share by Application (2021-2026)

3 AI-ENABLED IMAGING MODALITIES MARKET SIZE BY PLAYER

3.1 AI-Enabled Imaging Modalities Market Size Market Share by Player

3.1.1 Global AI-Enabled Imaging Modalities Revenue by Player (2021-2026)

3.1.2 Global AI-Enabled Imaging Modalities Revenue Market Share by Player (2021-2026)

3.2 Global AI-Enabled Imaging Modalities Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 AI-ENABLED IMAGING MODALITIES BY REGION

- 4.1 AI-Enabled Imaging Modalities Market Size by Region (2021-2026)
- 4.2 Global AI-Enabled Imaging Modalities Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas AI-Enabled Imaging Modalities Market Size Growth (2021-2026)
- 4.4 APAC AI-Enabled Imaging Modalities Market Size Growth (2021-2026)
- 4.5 Europe AI-Enabled Imaging Modalities Market Size Growth (2021-2026)
- 4.6 Middle East & Africa AI-Enabled Imaging Modalities Market Size Growth (2021-2026)

5 AMERICAS

- 5.1 Americas AI-Enabled Imaging Modalities Market Size by Country (2021-2026)
- 5.2 Americas AI-Enabled Imaging Modalities Market Size by Type (2021-2026)
- 5.3 Americas AI-Enabled Imaging Modalities Market Size by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC AI-Enabled Imaging Modalities Market Size by Region (2021-2026)
- 6.2 APAC AI-Enabled Imaging Modalities Market Size by Type (2021-2026)
- 6.3 APAC AI-Enabled Imaging Modalities Market Size by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

7 EUROPE

- 7.1 Europe AI-Enabled Imaging Modalities Market Size by Country (2021-2026)
- 7.2 Europe AI-Enabled Imaging Modalities Market Size by Type (2021-2026)
- 7.3 Europe AI-Enabled Imaging Modalities Market Size by Application (2021-2026)
- 7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa AI-Enabled Imaging Modalities by Region (2021-2026)

8.2 Middle East & Africa AI-Enabled Imaging Modalities Market Size by Type (2021-2026)

8.3 Middle East & Africa AI-Enabled Imaging Modalities Market Size by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 GLOBAL AI-ENABLED IMAGING MODALITIES MARKET FORECAST

10.1 Global AI-Enabled Imaging Modalities Forecast by Region (2027-2032)

10.1.1 Global AI-Enabled Imaging Modalities Forecast by Region (2027-2032)

10.1.2 Americas AI-Enabled Imaging Modalities Forecast

10.1.3 APAC AI-Enabled Imaging Modalities Forecast

10.1.4 Europe AI-Enabled Imaging Modalities Forecast

10.1.5 Middle East & Africa AI-Enabled Imaging Modalities Forecast

10.2 Americas AI-Enabled Imaging Modalities Forecast by Country (2027-2032)

10.2.1 United States Market AI-Enabled Imaging Modalities Forecast

10.2.2 Canada Market AI-Enabled Imaging Modalities Forecast

10.2.3 Mexico Market AI-Enabled Imaging Modalities Forecast

10.2.4 Brazil Market AI-Enabled Imaging Modalities Forecast

10.3 APAC AI-Enabled Imaging Modalities Forecast by Region (2027-2032)

10.3.1 China AI-Enabled Imaging Modalities Market Forecast

- 10.3.2 Japan Market AI-Enabled Imaging Modalities Forecast
- 10.3.3 Korea Market AI-Enabled Imaging Modalities Forecast
- 10.3.4 Southeast Asia Market AI-Enabled Imaging Modalities Forecast
- 10.3.5 India Market AI-Enabled Imaging Modalities Forecast
- 10.3.6 Australia Market AI-Enabled Imaging Modalities Forecast
- 10.4 Europe AI-Enabled Imaging Modalities Forecast by Country (2027-2032)
 - 10.4.1 Germany Market AI-Enabled Imaging Modalities Forecast
 - 10.4.2 France Market AI-Enabled Imaging Modalities Forecast
 - 10.4.3 UK Market AI-Enabled Imaging Modalities Forecast
 - 10.4.4 Italy Market AI-Enabled Imaging Modalities Forecast
 - 10.4.5 Russia Market AI-Enabled Imaging Modalities Forecast
- 10.5 Middle East & Africa AI-Enabled Imaging Modalities Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market AI-Enabled Imaging Modalities Forecast
 - 10.5.2 South Africa Market AI-Enabled Imaging Modalities Forecast
 - 10.5.3 Israel Market AI-Enabled Imaging Modalities Forecast
 - 10.5.4 Turkey Market AI-Enabled Imaging Modalities Forecast
- 10.6 Global AI-Enabled Imaging Modalities Forecast by Type (2027-2032)
- 10.7 Global AI-Enabled Imaging Modalities Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market AI-Enabled Imaging Modalities Forecast

11 KEY PLAYERS ANALYSIS

11.1 Philips

- 11.1.1 Philips Company Information
- 11.1.2 Philips AI-Enabled Imaging Modalities Product Offered
- 11.1.3 Philips AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
- 11.1.4 Philips Main Business Overview
- 11.1.5 Philips Latest Developments

11.2 Siemens Healthineers AG.

- 11.2.1 Siemens Healthineers AG. Company Information
- 11.2.2 Siemens Healthineers AG. AI-Enabled Imaging Modalities Product Offered
- 11.2.3 Siemens Healthineers AG. AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
- 11.2.4 Siemens Healthineers AG. Main Business Overview
- 11.2.5 Siemens Healthineers AG. Latest Developments

11.3 GE HealthCare

- 11.3.1 GE HealthCare Company Information

- 11.3.2 GE HealthCare AI-Enabled Imaging Modalities Product Offered
- 11.3.3 GE HealthCare AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
- 11.3.4 GE HealthCare Main Business Overview
- 11.3.5 GE HealthCare Latest Developments
- 11.4 Canon, Inc.
 - 11.4.1 Canon, Inc. Company Information
 - 11.4.2 Canon, Inc. AI-Enabled Imaging Modalities Product Offered
 - 11.4.3 Canon, Inc. AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.4.4 Canon, Inc. Main Business Overview
 - 11.4.5 Canon, Inc. Latest Developments
- 11.5 Agfa HealthCare
 - 11.5.1 Agfa HealthCare Company Information
 - 11.5.2 Agfa HealthCare AI-Enabled Imaging Modalities Product Offered
 - 11.5.3 Agfa HealthCare AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 Agfa HealthCare Main Business Overview
 - 11.5.5 Agfa HealthCare Latest Developments
- 11.6 Hologic
 - 11.6.1 Hologic Company Information
 - 11.6.2 Hologic AI-Enabled Imaging Modalities Product Offered
 - 11.6.3 Hologic AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.6.4 Hologic Main Business Overview
 - 11.6.5 Hologic Latest Developments
- 11.7 Fujifilm
 - 11.7.1 Fujifilm Company Information
 - 11.7.2 Fujifilm AI-Enabled Imaging Modalities Product Offered
 - 11.7.3 Fujifilm AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.7.4 Fujifilm Main Business Overview
 - 11.7.5 Fujifilm Latest Developments
- 11.8 Konica Minolta, Inc.
 - 11.8.1 Konica Minolta, Inc. Company Information
 - 11.8.2 Konica Minolta, Inc. AI-Enabled Imaging Modalities Product Offered
 - 11.8.3 Konica Minolta, Inc. AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.8.4 Konica Minolta, Inc. Main Business Overview

- 11.8.5 Konica Minolta, Inc. Latest Developments
- 11.9 United Health Imaging
 - 11.9.1 United Health Imaging Company Information
 - 11.9.2 United Health Imaging AI-Enabled Imaging Modalities Product Offered
 - 11.9.3 United Health Imaging AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.9.4 United Health Imaging Main Business Overview
 - 11.9.5 United Health Imaging Latest Developments
- 11.10 Exo Imaging
 - 11.10.1 Exo Imaging Company Information
 - 11.10.2 Exo Imaging AI-Enabled Imaging Modalities Product Offered
 - 11.10.3 Exo Imaging AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.10.4 Exo Imaging Main Business Overview
 - 11.10.5 Exo Imaging Latest Developments
- 11.11 Nanox
 - 11.11.1 Nanox Company Information
 - 11.11.2 Nanox AI-Enabled Imaging Modalities Product Offered
 - 11.11.3 Nanox AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 Nanox Main Business Overview
 - 11.11.5 Nanox Latest Developments
- 11.12 Butterfly Network, Inc.
 - 11.12.1 Butterfly Network, Inc. Company Information
 - 11.12.2 Butterfly Network, Inc. AI-Enabled Imaging Modalities Product Offered
 - 11.12.3 Butterfly Network, Inc. AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.12.4 Butterfly Network, Inc. Main Business Overview
 - 11.12.5 Butterfly Network, Inc. Latest Developments
- 11.13 Hyperfine
 - 11.13.1 Hyperfine Company Information
 - 11.13.2 Hyperfine AI-Enabled Imaging Modalities Product Offered
 - 11.13.3 Hyperfine AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)
 - 11.13.4 Hyperfine Main Business Overview
 - 11.13.5 Hyperfine Latest Developments
- 11.14 Aidoc
 - 11.14.1 Aidoc Company Information
 - 11.14.2 Aidoc AI-Enabled Imaging Modalities Product Offered

11.14.3 Aidoc AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)

11.14.4 Aidoc Main Business Overview

11.14.5 Aidoc Latest Developments

11.15 MRIguidance

11.15.1 MRIguidance Company Information

11.15.2 MRIguidance AI-Enabled Imaging Modalities Product Offered

11.15.3 MRIguidance AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)

11.15.4 MRIguidance Main Business Overview

11.15.5 MRIguidance Latest Developments

11.16 Synaptiq

11.16.1 Synaptiq Company Information

11.16.2 Synaptiq AI-Enabled Imaging Modalities Product Offered

11.16.3 Synaptiq AI-Enabled Imaging Modalities Revenue, Gross Margin and Market Share (2021-2026)

11.16.4 Synaptiq Main Business Overview

11.16.5 Synaptiq Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. AI-Enabled Imaging Modalities Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. AI-Enabled Imaging Modalities Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of AI-Enhanced X-ray

Table 4. Major Players of AI-Enhanced CT

Table 5. Major Players of AI-Enhanced MRI

Table 6. Major Players of AI-Enhanced Ultrasound

Table 7. Major Players of AI-Enhanced PET/SPECT

Table 8. AI-Enabled Imaging Modalities Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 9. Global AI-Enabled Imaging Modalities Market Size by Type (2021-2026) & (\$ millions)

Table 10. Global AI-Enabled Imaging Modalities Market Size Market Share by Type (2021-2026)

Table 11. Major Players of Image Reconstruction & Denoising

Table 12. Major Players of Lesion Detection & Segmentation

Table 13. Major Players of Quantitative Analysis & Biomarker Extraction

Table 14. Major Players of Diagnostic Decision Support

Table 15. Major Players of Workflow Automation

Table 16. AI-Enabled Imaging Modalities Market Size CAGR by AI Function (2021 VS 2025 VS 2032) & (\$ millions)

Table 17. Global AI-Enabled Imaging Modalities Market Size by AI Function (2021-2026) & (\$ millions)

Table 18. Global AI-Enabled Imaging Modalities Market Size Market Share by AI Function (2021-2026)

Table 19. Major Players of On-Device AI Imaging

Table 20. Major Players of Cloud-Based AI Imaging

Table 21. Major Players of Hybrid AI Imaging Solutions

Table 22. AI-Enabled Imaging Modalities Market Size CAGR by Deployment Mode (2021 VS 2025 VS 2032) & (\$ millions)

Table 23. Global AI-Enabled Imaging Modalities Market Size by Deployment Mode (2021-2026) & (\$ millions)

Table 24. Global AI-Enabled Imaging Modalities Market Size Market Share by Deployment Mode (2021-2026)

Table 25. AI-Enabled Imaging Modalities Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 26. Global AI-Enabled Imaging Modalities Market Size by Application (2021-2026) & (\$ millions)

Table 27. Global AI-Enabled Imaging Modalities Market Size Market Share by Application (2021-2026)

Table 28. Global AI-Enabled Imaging Modalities Revenue by Player (2021-2026) & (\$ millions)

Table 29. Global AI-Enabled Imaging Modalities Revenue Market Share by Player (2021-2026)

Table 30. AI-Enabled Imaging Modalities Key Players Head office and Products Offered

Table 31. AI-Enabled Imaging Modalities Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 32. New Products and Potential Entrants

Table 33. Mergers & Acquisitions, Expansion

Table 34. Global AI-Enabled Imaging Modalities Market Size by Region (2021-2026) & (\$ millions)

Table 35. Global AI-Enabled Imaging Modalities Market Size Market Share by Region (2021-2026)

Table 36. Global AI-Enabled Imaging Modalities Revenue by Country/Region (2021-2026) & (\$ millions)

Table 37. Global AI-Enabled Imaging Modalities Revenue Market Share by Country/Region (2021-2026)

Table 38. Americas AI-Enabled Imaging Modalities Market Size by Country (2021-2026) & (\$ millions)

Table 39. Americas AI-Enabled Imaging Modalities Market Size Market Share by Country (2021-2026)

Table 40. Americas AI-Enabled Imaging Modalities Market Size by Type (2021-2026) & (\$ millions)

Table 41. Americas AI-Enabled Imaging Modalities Market Size Market Share by Type (2021-2026)

Table 42. Americas AI-Enabled Imaging Modalities Market Size by Application (2021-2026) & (\$ millions)

Table 43. Americas AI-Enabled Imaging Modalities Market Size Market Share by Application (2021-2026)

Table 44. APAC AI-Enabled Imaging Modalities Market Size by Region (2021-2026) & (\$ millions)

Table 45. APAC AI-Enabled Imaging Modalities Market Size Market Share by Region (2021-2026)

Table 46. APAC AI-Enabled Imaging Modalities Market Size by Type (2021-2026) & (\$ millions)

Table 47. APAC AI-Enabled Imaging Modalities Market Size by Application (2021-2026) & (\$ millions)

Table 48. Europe AI-Enabled Imaging Modalities Market Size by Country (2021-2026) & (\$ millions)

Table 49. Europe AI-Enabled Imaging Modalities Market Size Market Share by Country (2021-2026)

Table 50. Europe AI-Enabled Imaging Modalities Market Size by Type (2021-2026) & (\$ millions)

Table 51. Europe AI-Enabled Imaging Modalities Market Size by Application (2021-2026) & (\$ millions)

Table 52. Middle East & Africa AI-Enabled Imaging Modalities Market Size by Region (2021-2026) & (\$ millions)

Table 53. Middle East & Africa AI-Enabled Imaging Modalities Market Size by Type (2021-2026) & (\$ millions)

Table 54. Middle East & Africa AI-Enabled Imaging Modalities Market Size by Application (2021-2026) & (\$ millions)

Table 55. Key Market Drivers & Growth Opportunities of AI-Enabled Imaging Modalities

Table 56. Key Market Challenges & Risks of AI-Enabled Imaging Modalities

Table 57. Key Industry Trends of AI-Enabled Imaging Modalities

Table 58. Global AI-Enabled Imaging Modalities Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 59. Global AI-Enabled Imaging Modalities Market Size Market Share Forecast by Region (2027-2032)

Table 60. Global AI-Enabled Imaging Modalities Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 61. Global AI-Enabled Imaging Modalities Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 62. Philips Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 63. Philips AI-Enabled Imaging Modalities Product Offered

Table 64. Philips AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 65. Philips Main Business

Table 66. Philips Latest Developments

Table 67. Siemens Healthineers AG. Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 68. Siemens Healthineers AG. AI-Enabled Imaging Modalities Product Offered

Table 69. Siemens Healthineers AG. AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 70. Siemens Healthineers AG. Main Business

Table 71. Siemens Healthineers AG. Latest Developments

Table 72. GE HealthCare Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 73. GE HealthCare AI-Enabled Imaging Modalities Product Offered

Table 74. GE HealthCare AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 75. GE HealthCare Main Business

Table 76. GE HealthCare Latest Developments

Table 77. Canon, Inc. Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 78. Canon, Inc. AI-Enabled Imaging Modalities Product Offered

Table 79. Canon, Inc. AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 80. Canon, Inc. Main Business

Table 81. Canon, Inc. Latest Developments

Table 82. Agfa HealthCare Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 83. Agfa HealthCare AI-Enabled Imaging Modalities Product Offered

Table 84. Agfa HealthCare AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 85. Agfa HealthCare Main Business

Table 86. Agfa HealthCare Latest Developments

Table 87. Hologic Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 88. Hologic AI-Enabled Imaging Modalities Product Offered

Table 89. Hologic AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 90. Hologic Main Business

Table 91. Hologic Latest Developments

Table 92. Fujifilm Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 93. Fujifilm AI-Enabled Imaging Modalities Product Offered

Table 94. Fujifilm AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 95. Fujifilm Main Business

Table 96. Fujifilm Latest Developments

Table 97. Konica Minolta, Inc. Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 98. Konica Minolta, Inc. AI-Enabled Imaging Modalities Product Offered

Table 99. Konica Minolta, Inc. AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 100. Konica Minolta, Inc. Main Business

Table 101. Konica Minolta, Inc. Latest Developments

Table 102. United Health Imaging Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 103. United Health Imaging AI-Enabled Imaging Modalities Product Offered

Table 104. United Health Imaging AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 105. United Health Imaging Main Business

Table 106. United Health Imaging Latest Developments

Table 107. Exo Imaging Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 108. Exo Imaging AI-Enabled Imaging Modalities Product Offered

Table 109. Exo Imaging AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 110. Exo Imaging Main Business

Table 111. Exo Imaging Latest Developments

Table 112. Nanox Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 113. Nanox AI-Enabled Imaging Modalities Product Offered

Table 114. Nanox AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 115. Nanox Main Business

Table 116. Nanox Latest Developments

Table 117. Butterfly Network, Inc. Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 118. Butterfly Network, Inc. AI-Enabled Imaging Modalities Product Offered

Table 119. Butterfly Network, Inc. AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 120. Butterfly Network, Inc. Main Business

Table 121. Butterfly Network, Inc. Latest Developments

Table 122. Hyperfine Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 123. Hyperfine AI-Enabled Imaging Modalities Product Offered

Table 124. Hyperfine AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin

and Market Share (2021-2026)

Table 125. Hyperfine Main Business

Table 126. Hyperfine Latest Developments

Table 127. Aidoc Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 128. Aidoc AI-Enabled Imaging Modalities Product Offered

Table 129. Aidoc AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 130. Aidoc Main Business

Table 131. Aidoc Latest Developments

Table 132. MRIGuidance Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 133. MRIGuidance AI-Enabled Imaging Modalities Product Offered

Table 134. MRIGuidance AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 135. MRIGuidance Main Business

Table 136. MRIGuidance Latest Developments

Table 137. Synaptiq Details, Company Type, AI-Enabled Imaging Modalities Area Served and Its Competitors

Table 138. Synaptiq AI-Enabled Imaging Modalities Product Offered

Table 139. Synaptiq AI-Enabled Imaging Modalities Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 140. Synaptiq Main Business

Table 141. Synaptiq Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. AI-Enabled Imaging Modalities Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global AI-Enabled Imaging Modalities Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. AI-Enabled Imaging Modalities Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. AI-Enabled Imaging Modalities Sales Market Share by Country/Region (2025)

Figure 8. AI-Enabled Imaging Modalities Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global AI-Enabled Imaging Modalities Market Size Market Share by Type in 2025

Figure 10. Global AI-Enabled Imaging Modalities Market Size Market Share by AI Function in 2025

Figure 11. Global AI-Enabled Imaging Modalities Market Size Market Share by Deployment Mode in 2025

Figure 12. AI-Enabled Imaging Modalities in Oncology Imaging

Figure 13. Global AI-Enabled Imaging Modalities Market: Oncology Imaging (2021-2026) & (\$ millions)

Figure 14. AI-Enabled Imaging Modalities in Cardiovascular Imaging

Figure 15. Global AI-Enabled Imaging Modalities Market: Cardiovascular Imaging (2021-2026) & (\$ millions)

Figure 16. AI-Enabled Imaging Modalities in Neurology & Brain Imaging

Figure 17. Global AI-Enabled Imaging Modalities Market: Neurology & Brain Imaging (2021-2026) & (\$ millions)

Figure 18. AI-Enabled Imaging Modalities in Orthopedic & Musculoskeletal Imaging

Figure 19. Global AI-Enabled Imaging Modalities Market: Orthopedic & Musculoskeletal Imaging (2021-2026) & (\$ millions)

Figure 20. AI-Enabled Imaging Modalities in Abdominal & Pulmonary Imaging

Figure 21. Global AI-Enabled Imaging Modalities Market: Abdominal & Pulmonary Imaging (2021-2026) & (\$ millions)

Figure 22. Global AI-Enabled Imaging Modalities Market Size Market Share by Application in 2025

Figure 23. Global AI-Enabled Imaging Modalities Revenue Market Share by Player in

2025

Figure 24. Global AI-Enabled Imaging Modalities Market Size Market Share by Region (2021-2026)

Figure 25. Americas AI-Enabled Imaging Modalities Market Size 2021-2026 (\$ millions)

Figure 26. APAC AI-Enabled Imaging Modalities Market Size 2021-2026 (\$ millions)

Figure 27. Europe AI-Enabled Imaging Modalities Market Size 2021-2026 (\$ millions)

Figure 28. Middle East & Africa AI-Enabled Imaging Modalities Market Size 2021-2026 (\$ millions)

Figure 29. Americas AI-Enabled Imaging Modalities Value Market Share by Country in 2025

Figure 30. United States AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 31. Canada AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 32. Mexico AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 33. Brazil AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 34. APAC AI-Enabled Imaging Modalities Market Size Market Share by Region in 2025

Figure 35. APAC AI-Enabled Imaging Modalities Market Size Market Share by Type (2021-2026)

Figure 36. APAC AI-Enabled Imaging Modalities Market Size Market Share by Application (2021-2026)

Figure 37. China AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 38. Japan AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 39. South Korea AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 40. Southeast Asia AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 41. India AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 42. Australia AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 43. Europe AI-Enabled Imaging Modalities Market Size Market Share by Country in 2025

Figure 44. Europe AI-Enabled Imaging Modalities Market Size Market Share by Type

(2021-2026)

Figure 45. Europe AI-Enabled Imaging Modalities Market Size Market Share by Application (2021-2026)

Figure 46. Germany AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 47. France AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 48. UK AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 49. Italy AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 50. Russia AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 51. Middle East & Africa AI-Enabled Imaging Modalities Market Size Market Share by Region (2021-2026)

Figure 52. Middle East & Africa AI-Enabled Imaging Modalities Market Size Market Share by Type (2021-2026)

Figure 53. Middle East & Africa AI-Enabled Imaging Modalities Market Size Market Share by Application (2021-2026)

Figure 54. Egypt AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 55. South Africa AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 56. Israel AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 57. Turkey AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 58. GCC Countries AI-Enabled Imaging Modalities Market Size Growth 2021-2026 (\$ millions)

Figure 59. Americas AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 60. APAC AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 61. Europe AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 62. Middle East & Africa AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 63. United States AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 64. Canada AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 65. Mexico AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 66. Brazil AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 67. China AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 68. Japan AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 69. Korea AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 70. Southeast Asia AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 71. India AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 72. Australia AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 73. Germany AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 74. France AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 75. UK AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 76. Italy AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 77. Russia AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 78. Egypt AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 79. South Africa AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 80. Israel AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 81. Turkey AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

Figure 82. Global AI-Enabled Imaging Modalities Market Size Market Share Forecast by Type (2027-2032)

Figure 83. Global AI-Enabled Imaging Modalities Market Size Market Share Forecast by Application (2027-2032)

Figure 84. GCC Countries AI-Enabled Imaging Modalities Market Size 2027-2032 (\$ millions)

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