

Picture Archiving and Communication System (PACS) Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application

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Abstracts

Picture Archiving and Communication System (PACS) Market Summary

Introduction

Picture Archiving and Communication Systems (PACS) are advanced medical imaging technologies that enable the storage, retrieval, management, and sharing of digital medical images, such as X-rays, MRIs, and CT scans, across healthcare facilities. Integrated with radiology information systems (RIS) and electronic health records (EHR), PACS eliminates the need for physical film, enhancing diagnostic efficiency, accessibility, and patient care coordination. Used primarily in hospitals, clinics, diagnostic centers, and other healthcare settings, PACS supports applications ranging from routine diagnostics to specialized imaging workflows. The PACS industry operates within the broader healthcare IT and medical imaging market, characterized by its critical role in digital transformation, reliance on healthcare infrastructure investments, and continuous evolution through cloud-based and AI-enhanced solutions. The market is driven by increasing demand for diagnostic imaging, healthcare digitization, and telemedicine adoption, particularly in regions with advanced medical systems, but faces challenges from high implementation costs, data security concerns, and interoperability issues.

Market Size and Growth Forecast

The global Picture Archiving and Communication System (PACS) market is estimated at approximately USD 1.5 to 2.8 billion in 2025, with a projected compound annual growth rate (CAGR) of 4.2% to 5.8% from 2025 to 2030, reaching USD 1.9 to 3.6 billion by

2030. This growth reflects steady expansion driven by healthcare digitization and imaging demand, supported by technological advancements, though moderated by cost and regulatory pressures.

Regional Analysis

North America: Holding an estimated 35-40% of the market share, North America grows at 4-5.5%. The United States leads with widespread adoption in hospitals and diagnostic centers, driven by advanced healthcare infrastructure, high imaging volumes, and government incentives like the HITECH Act promoting EHR integration. Trends focus on cloud-based PACS and AI diagnostics, with providers enhancing interoperability and data security to meet HIPAA standards.

Europe: Accounting for 25-30% of the market share, Europe grows at 3.5-5%. Germany, the UK, and France are key markets, supported by robust public healthcare systems and EU digitization initiatives. Germany emphasizes hospital PACS for oncology imaging, while the UK prioritizes clinic-based systems. Market trends highlight GDPR compliance and regional healthcare IT integration, though growth is tempered by budget constraints in public systems.

Asia Pacific: Representing 25-30% of the market share, this region grows at 5-6.5%. China and Japan dominate due to rapid healthcare modernization and diagnostic center growth, with India emerging as a key player. China's hospital digitization and Japan's aging population drive demand, while India focuses on affordable PACS for rural diagnostics. Trends emphasize scalable, cloud-based solutions and government healthcare IT investments.

Rest of the World: With a 10-15% share, this region grows at 4-5.5%. Brazil and South Africa lead with demand in hospitals and clinics, fueled by healthcare access improvements. Brazil benefits from public health digitization, while South Africa targets diagnostic efficiency. Trends prioritize cost-effective systems to support expanding medical imaging needs.

Application Analysis

Hospitals: Expected to grow at 4-5.5%, dominant application. Used for comprehensive imaging workflows, trends focus on integrated PACS-RIS systems and AI diagnostics, driven by high patient volumes and complex care needs.

Clinics: Projected at 4.5-6%, growing application. Supports outpatient imaging, trends emphasize portable and cloud-based PACS for flexibility and cost-efficiency, particularly in specialized care settings.

Diagnostic Centres: Anticipated at 3.5-5%, significant application. Facilitates high-throughput imaging, trends target interoperability with hospital networks and advanced visualization tools for precision diagnostics.

Others: Projected at 3-4.5%, covering minor uses. Includes research and telemedicine, trends explore remote imaging and academic applications.

Key Market Players

Philips: A leader in integrated PACS solutions for hospitals.

Siemens Healthineers: Specializes in advanced imaging systems.

GE Healthcare: Offers scalable PACS for diagnostics.

Fujifilm: Provides innovative imaging and storage solutions.

Change Healthcare/Optum Inc: Focuses on cloud-based PACS.

AGFA: Supplies robust PACS for clinics and hospitals.

Carestream: Innovates in diagnostic imaging systems.

Maincare: Offers tailored PACS for healthcare networks.

MedSystems: Provides cost-effective imaging solutions.

These companies compete on technology, scalability, and integration.

Porter's Five Forces Analysis

Threat of New Entrants: Medium; high technical expertise and regulatory barriers deter entry, though growing healthcare IT demand offers opportunities for niche players with cost-effective solutions.

Threat of Substitutes: Medium; traditional film and standalone imaging compete in low-tech settings, but PACS's digital efficiency sustains demand in advanced healthcare.

Bargaining Power of Buyers: High; hospitals and diagnostic centers negotiate due to large contracts and integration needs, particularly in cost-sensitive markets like Asia Pacific.

Bargaining Power of Suppliers: Medium; reliance on software and hardware providers gives leverage, offset by diversified sourcing and tech partnerships.

Competitive Rivalry: High; players compete on system integration, cloud capabilities, and AI features, driving innovation and consolidation.

Market Opportunities and Challenges

Opportunities:

-The wave of healthcare digitization in Asia Pacific offers a significant opportunity for PACS, as countries like China and India invest heavily in modernizing medical imaging infrastructure. Providers can capitalize by offering scalable, cloud-based systems, positioning themselves as key enablers in these rapidly evolving healthcare landscapes.

-The rise of telemedicine in North America and Europe creates a promising avenue for PACS adoption in clinics and diagnostic centers, driven by the shift toward remote care. Developing interoperable, AI-enhanced systems allows companies to meet the growing need for real-time imaging access, enhancing their role in this transformative healthcare

trend.

-The integration of AI diagnostics globally presents a pathway for PACS to evolve beyond storage into advanced diagnostic tools, particularly in hospitals. By innovating with image analysis and workflow automation, manufacturers can lead in precision medicine, aligning with the broader move toward data-driven healthcare solutions.

Challenges:

-The substantial investment required to implement PACS systems poses a persistent obstacle, particularly in cost-sensitive regions like the Rest of the World. High deployment costs can deter adoption unless providers offer flexible, affordable options, a challenge that looms large where healthcare budgets are constrained.

-Data security concerns, especially in North America and Europe, cast a shadow over cloud-based PACS adoption, as breaches could undermine trust and compliance with strict regulations like GDPR and HIPAA. This necessitates significant efforts in cybersecurity, adding complexity and cost to system development and deployment.

-The difficulty of integrating PACS with legacy healthcare systems presents a technical hurdle, particularly in hospitals with established EHRs and RIS. Ensuring seamless connectivity requires tailored solutions, a challenge that grows as healthcare networks demand efficient, unified data-sharing platforms.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Picture Archiving and Communication System (Pacs) Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST PICTURE ARCHIVING AND COMMUNICATION SYSTEM (PACS) MARKET IN NORTH AMERICA (2020-2030)

- 8.1 Picture Archiving and Communication System (Pacs) Market Size
- 8.2 Picture Archiving and Communication System (Pacs) Market by End Use
- 8.3 Competition by Players/Suppliers
- 8.4 Picture Archiving and Communication System (Pacs) Market Size by Type
- 8.5 Key Countries Analysis
 - 8.5.1 United States
 - 8.5.2 Canada
 - 8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST PICTURE ARCHIVING AND COMMUNICATION SYSTEM (PACS) MARKET IN SOUTH AMERICA (2020-2030)

- 9.1 Picture Archiving and Communication System (Pacs) Market Size
- 9.2 Picture Archiving and Communication System (Pacs) Market by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Picture Archiving and Communication System (Pacs) Market Size by Type
- 9.5 Key Countries Analysis
 - 9.5.1 Brazil
 - 9.5.2 Argentina
 - 9.5.3 Chile
 - 9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST PICTURE ARCHIVING AND COMMUNICATION SYSTEM (PACS) MARKET IN ASIA & PACIFIC (2020-2030)

- 10.1 Picture Archiving and Communication System (Pacs) Market Size
- 10.2 Picture Archiving and Communication System (Pacs) Market by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Picture Archiving and Communication System (Pacs) Market Size by Type
- 10.5 Key Countries Analysis
 - 10.5.1 China
 - 10.5.2 India
 - 10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST PICTURE ARCHIVING AND COMMUNICATION SYSTEM (PACS) MARKET IN EUROPE (2020-2030)

- 11.1 Picture Archiving and Communication System (Pacs) Market Size
- 11.2 Picture Archiving and Communication System (Pacs) Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Picture Archiving and Communication System (Pacs) Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST PICTURE ARCHIVING AND COMMUNICATION SYSTEM (PACS) MARKET IN MEA (2020-2030)

- 12.1 Picture Archiving and Communication System (Pacs) Market Size
- 12.2 Picture Archiving and Communication System (Pacs) Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Picture Archiving and Communication System (Pacs) Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL PICTURE ARCHIVING AND COMMUNICATION SYSTEM (PACS) MARKET (2020-2025)

- 13.1 Picture Archiving and Communication System (Pacs) Market Size
- 13.2 Picture Archiving and Communication System (Pacs) Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Picture Archiving and Communication System (Pacs) Market Size by Type

CHAPTER 14 GLOBAL PICTURE ARCHIVING AND COMMUNICATION SYSTEM (PACS) MARKET FORECAST (2025-2030)

- 14.1 Picture Archiving and Communication System (Pacs) Market Size Forecast
- 14.2 Picture Archiving and Communication System (Pacs) Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Picture Archiving and Communication System (Pacs) Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Philips
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Picture Archiving and Communication System (PACS) Information
 - 15.1.3 SWOT Analysis of Philips
 - 15.1.4 Philips Picture Archiving and Communication System (PACS) Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Siemens Healthineers
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Picture Archiving and Communication System (PACS) Information
 - 15.2.3 SWOT Analysis of Siemens Healthineers
 - 15.2.4 Siemens Healthineers Picture Archiving and Communication System (PACS) Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 GE Healthcare
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Picture Archiving and Communication System (PACS) Information
 - 15.3.3 SWOT Analysis of GE Healthcare
 - 15.3.4 GE Healthcare Picture Archiving and Communication System (PACS) Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Fujifilm
 - 15.4.1 Company Profile

15.4.2 Main Business and Picture Archiving and Communication System (PACS) Information

15.4.3 SWOT Analysis of Fujifilm

15.4.4 Fujifilm Picture Archiving and Communication System (PACS) Revenue, Gross Margin and Market Share (2020-2025)

15.5 AGFA

15.5.1 Company Profile

15.5.2 Main Business and Picture Archiving and Communication System (PACS) Information

15.5.3 SWOT Analysis of AGFA

15.5.4 AGFA Picture Archiving and Communication System (PACS) Revenue, Gross Margin and Market Share (2020-2025)

15.6 Optum Inc

15.6.1 Company Profile

15.6.2 Main Business and Picture Archiving and Communication System (PACS) Information

15.6.3 SWOT Analysis of Optum Inc

15.6.4 Optum Inc Picture Archiving and Communication System (PACS) Revenue, Gross Margin and Market Share (2020-2025)

15.7 Carestream

15.7.1 Company Profile

15.7.2 Main Business and Picture Archiving and Communication System (PACS) Information

15.7.3 SWOT Analysis of Carestream

15.7.4 Carestream Picture Archiving and Communication System (PACS) Revenue, Gross Margin and Market Share (2020-2025)

15.8 Maincare

15.8.1 Company Profile

15.8.2 Main Business and Picture Archiving and Communication System (PACS) Information

15.8.3 SWOT Analysis of Maincare

15.8.4 Maincare Picture Archiving and Communication System (PACS) Revenue, Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms

Table Research Scope of Picture Archiving and Communication System (Pacs) Report

Table Data Sources of Picture Archiving and Communication System (Pacs) Report

Table Major Assumptions of Picture Archiving and Communication System (Pacs)

Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Picture Archiving and Communication System (Pacs) Picture

Table Picture Archiving and Communication System (Pacs) Classification

Table Picture Archiving and Communication System (Pacs) Applications

Table Drivers of Picture Archiving and Communication System (Pacs) Market

Table Restraints of Picture Archiving and Communication System (Pacs) Market

Table Opportunities of Picture Archiving and Communication System (Pacs) Market

Table Threats of Picture Archiving and Communication System (Pacs) Market

Table Covid-19 Impact For Picture Archiving and Communication System (Pacs) Market

Table Raw Materials Suppliers

Table Different Production Methods of Picture Archiving and Communication System (Pacs)

Table Cost Structure Analysis of Picture Archiving and Communication System (Pacs)

Table Key End Users

Table Latest News of Picture Archiving and Communication System (Pacs) Market

Table Merger and Acquisition

Table Planned/Future Project of Picture Archiving and Communication System (Pacs) Market

Table Policy of Picture Archiving and Communication System (Pacs) Market

Table 2020-2030 North America Picture Archiving and Communication System (Pacs) Market Size

Figure 2020-2030 North America Picture Archiving and Communication System (Pacs) Market Size and CAGR

Table 2020-2030 North America Picture Archiving and Communication System (Pacs) Market Size by Application

Table 2020-2025 North America Picture Archiving and Communication System (Pacs) Key Players Revenue

Table 2020-2025 North America Picture Archiving and Communication System (Pacs) Key Players Market Share

Table 2020-2030 North America Picture Archiving and Communication System (Pacs) Market Size by Type

Table 2020-2030 United States Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Canada Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Mexico Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 South America Picture Archiving and Communication System (Pacs) Market Size

Figure 2020-2030 South America Picture Archiving and Communication System (Pacs) Market Size and CAGR

Table 2020-2030 South America Picture Archiving and Communication System (Pacs) Market Size by Application

Table 2020-2025 South America Picture Archiving and Communication System (Pacs) Key Players Revenue

Table 2020-2025 South America Picture Archiving and Communication System (Pacs) Key Players Market Share

Table 2020-2030 South America Picture Archiving and Communication System (Pacs) Market Size by Type

Table 2020-2030 Brazil Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Argentina Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Chile Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Peru Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Asia & Pacific Picture Archiving and Communication System (Pacs) Market Size

Figure 2020-2030 Asia & Pacific Picture Archiving and Communication System (Pacs) Market Size and CAGR

Table 2020-2030 Asia & Pacific Picture Archiving and Communication System (Pacs) Market Size by Application

Table 2020-2025 Asia & Pacific Picture Archiving and Communication System (Pacs) Key Players Revenue

Table 2020-2025 Asia & Pacific Picture Archiving and Communication System (Pacs) Key Players Market Share

Table 2020-2030 Asia & Pacific Picture Archiving and Communication System (Pacs) Market Size by Type

Table 2020-2030 China Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 India Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Japan Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 South Korea Picture Archiving and Communication System (Pacs)

Market Size

Table 2020-2030 Southeast Asia Picture Archiving and Communication System (Pacs)

Market Size

Table 2020-2030 Australia Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Europe Picture Archiving and Communication System (Pacs) Market Size

Figure 2020-2030 Europe Picture Archiving and Communication System (Pacs) Market Size and CAGR

Table 2020-2030 Europe Picture Archiving and Communication System (Pacs) Market Size by Application

Table 2020-2025 Europe Picture Archiving and Communication System (Pacs) Key Players Revenue

Table 2020-2025 Europe Picture Archiving and Communication System (Pacs) Key Players Market Share

Table 2020-2030 Europe Picture Archiving and Communication System (Pacs) Market Size by Type

Table 2020-2030 Germany Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 France Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 United Kingdom Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Italy Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Spain Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Belgium Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Netherlands Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Austria Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Poland Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Russia Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 MEA Picture Archiving and Communication System (Pacs) Market Size

Figure 2020-2030 MEA Picture Archiving and Communication System (Pacs) Market

Size and CAGR

Table 2020-2030 MEA Picture Archiving and Communication System (Pacs) Market Size by Application

Table 2020-2025 MEA Picture Archiving and Communication System (Pacs) Key Players Revenue

Table 2020-2025 MEA Picture Archiving and Communication System (Pacs) Key Players Market Share

Table 2020-2030 MEA Picture Archiving and Communication System (Pacs) Market Size by Type

Table 2020-2030 Egypt Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Israel Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 South Africa Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Gulf Cooperation Council Countries Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2030 Turkey Picture Archiving and Communication System (Pacs) Market Size

Table 2020-2025 Global Picture Archiving and Communication System (Pacs) Market Size by Region

Table 2020-2025 Global Picture Archiving and Communication System (Pacs) Market Size Share by Region

Table 2020-2025 Global Picture Archiving and Communication System (Pacs) Market Size by Application

Table 2020-2025 Global Picture Archiving and Communication System (Pacs) Market Share by Application

Table 2020-2025 Global Picture Archiving and Communication System (Pacs) Key Vendors Revenue

Figure 2020-2025 Global Picture Archiving and Communication System (Pacs) Market Size and Growth Rate

Table 2020-2025 Global Picture Archiving and Communication System (Pacs) Key Vendors Market Share

Table 2020-2025 Global Picture Archiving and Communication System (Pacs) Market Size by Type

Table 2020-2025 Global Picture Archiving and Communication System (Pacs) Market Share by Type

Table 2025-2030 Global Picture Archiving and Communication System (Pacs) Market Size by Region

Table 2025-2030 Global Picture Archiving and Communication System (Pacs) Market Size Share by Region

Table 2025-2030 Global Picture Archiving and Communication System (Pacs) Market Size by Application

Table 2025-2030 Global Picture Archiving and Communication System (Pacs) Market Share by Application

Table 2025-2030 Global Picture Archiving and Communication System (Pacs) Key Vendors Revenue

Figure 2025-2030 Global Picture Archiving and Communication System (Pacs) Market Size and Growth Rate

Table 2025-2030 Global Picture Archiving and Communication System (Pacs) Key Vendors Market Share

Table 2025-2030 Global Picture Archiving and Communication System (Pacs) Market Size by Type

Table 2025-2030 Picture Archiving and Communication System (Pacs) Global Market Share by Type

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