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Global Artificial Intelligence in the Operating Room Market 2025 by Company, Regions, Type and Application, Forecast to 2031

https://marketpublishers.com/r/G3899394F7A9EN.html
Date: March 2025
Pages: 107
Price: US$ 3,480.00 (Single User License)
ID: G3899394F7A9EN

Abstracts

According to our (Global Info Research) latest study, the global Artificial Intelligence in the Operating Room market size was valued at US$ 1286 million in 2024 and is forecast to a readjusted size of USD 2391 million by 2031 with a CAGR of 9.4% during review period.

Artificial intelligence (AI) is being increasingly integrated into various aspects of healthcare, including the operating room.

Surgical Planning and Simulation: AI algorithms can analyze medical images, such as CT scans or MRIs, to assist surgeons in preoperative planning. They can help identify critical structures, simulate surgical scenarios, and provide insights to optimize surgical techniques, reducing the risk of complications.

Image-Guided Surgery: AI can be utilized to assist in real-time image-guided procedures during surgery. It can help track surgical instruments, overlay preoperative imaging onto the live surgical field, and provide dynamic visual guidance to aid surgeons in precise navigation and decision-making.

Robotic-Assisted Surgery: Robotic surgical systems, such as the da Vinci Surgical System, incorporate AI to enable minimally invasive procedures with enhanced precision and dexterity. AI algorithms assist surgeons in controlling robotic instruments, filtering or compensating for hand movements, and optimizing the surgical workflow.

Predictive Analytics and Risk Assessment: AI algorithms can analyze patient data, including electronic health records (EHRs), vital signs, and medical literature, to assess

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and predict surgical risks. This can help surgeons make informed decisions, personalize treatment plans, and anticipate potential complications or adverse events.

Surgical Workflow Optimization: AI-powered systems can streamline and optimize the surgical workflow by analyzing data and providing real-time assistance. These systems can help with scheduling, resource allocation, instrument sterilization, and coordination among surgical staff, ultimately improving efficiency and patient care.

Postoperative Monitoring and Recovery: AI algorithms can monitor patients during the postoperative phase, analyzing vital signs, tracking medication adherence, and providing decision support to healthcare providers. This can aid in early detection of complications and prompt interventions for better patient outcomes.

Quality Improvement and Learning: AI can be used to analyze surgical video recordings, clinical data, and outcomes to identify patterns and trends. This information can contribute to quality improvement initiatives, research studies, and the ongoing education and training of surgical teams.

The global artificial intelligence (AI) in the operating room market refers to the application of AI technologies and systems in surgical settings to improve surgical outcomes, enhance surgical precision, and optimize workflow efficiency. AI in the operating room involves the use of machine learning algorithms, computer vision, robotics, natural language processing, and other AI techniques to assist surgeons and healthcare professionals during surgical procedures.

The market for AI in the operating room is driven by several factors. Firstly, there is a growing need for improving surgical precision and reducing surgical errors. AI technologies can provide real-time guidance and decision support to surgeons, assisting them in critical tasks such as preoperative planning, intraoperative navigation, and postoperative analysis. This can lead to better surgical outcomes, reduced complications, and improved patient safety.

Secondly, the advancements in medical imaging and robotic surgery have created opportunities for AI integration. AI algorithms can analyze medical images, such as CT scans or MRIs, to assist in surgical planning and provide real-time intraoperative guidance. AI can also be used in conjunction with surgical robots to enhance precision, dexterity, and control during minimally invasive procedures.

Furthermore, the increasing volume of healthcare data, including patient records,

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imaging data, and surgical videos, presents opportunities for AI-driven insights and decision-making. AI algorithms can analyze large datasets to identify patterns, predict outcomes, and provide personalized recommendations, aiding surgeons in making informed decisions during surgeries.

Additionally, the ongoing research and development efforts aimed at enhancing AI capabilities for surgical applications contribute to market growth. This includes the development of AI-based surgical simulators, virtual reality tools, and augmented reality systems to improve surgical training, education, and planning.

Geographically, North America and Europe are the prominent markets for AI in the operating room, driven by factors such as well-established healthcare infrastructure, favorable reimbursement policies, and a high adoption rate of advanced medical technologies. Asia-Pacific is also experiencing significant growth, fueled by improving healthcare facilities, increasing healthcare expenditure, and a surge in demand for minimally invasive surgeries.

Key players in the global AI in the operating room market include medical device manufacturers, AI software companies, healthcare IT providers, and research institutions. These organizations are actively involved in developing AI solutions and platforms tailored for surgical applications, as well as collaborating with healthcare providers to integrate AI technologies into the operating room.

In conclusion, the global AI in the operating room market is driven by the need for improved surgical precision, reduced errors, and enhanced workflow efficiency. AI technologies offer real-time guidance, decision support, and data-driven insights to assist surgeons during surgical procedures. With the rapid advancements in AI capabilities and increasing acceptance of AI-driven surgical solutions, the market is expected to witness substantial growth in the coming years.

This report is a detailed and comprehensive analysis for global Artificial Intelligence in the Operating Room market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

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Global Artificial Intelligence in the Operating Room market size and forecasts, in consumption value ($ Million), 2020-2031

Global Artificial Intelligence in the Operating Room market size and forecasts by region and country, in consumption value ($ Million), 2020-2031

Global Artificial Intelligence in the Operating Room market size and forecasts, by Type and by Application, in consumption value ($ Million), 2020-2031

Global Artificial Intelligence in the Operating Room market shares of main players, in revenue ($ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Artificial Intelligence in the Operating Room

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Artificial Intelligence in the Operating Room market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Activ Surgical, Brainomix, Caresyntax, DeepOR S.A.S, ExplORer Surgical Corp, Holo Surgical Inc, LeanTaaS Inc, Medtronic Plc, Proximie, Theator Inc, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Artificial Intelligence in the Operating Room market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

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Market segment by Type

- Hardware
- Software
- Services
- Others

Market segment by Application

- Hospitals
- Ambulatory Surgical Centers
- Specialized Facilities
- Others

Market segment by players, this report covers

- Activ Surgical
- Brainomix
- Caresyntax
- DeepOR S.A.S
- ExplORer Surgical Corp
- Holo Surgical Inc
- LeanTaaS Inc

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Medtronic Plc

Proximie

Theator Inc

Tianjin JingMing New Tech

Devp. Co.

Hanson Meditec Co

Huaian Meide Medical Instrument Co

Scalpel Limited

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Artificial Intelligence in the Operating Room product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Artificial Intelligence in the Operating Room, with revenue, gross margin, and global market share of Artificial Intelligence in the Operating Room from 2020 to 2025.

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Chapter 3, the Artificial Intelligence in the Operating Room competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025.and Artificial Intelligence in the Operating Room market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Artificial Intelligence in the Operating Room.

Chapter 13, to describe Artificial Intelligence in the Operating Room research findings and conclusion.

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