

Immersive Virtual Reality Market Size, Share & Trends Analysis Report By Component (Hardware, Software), By Technology, By Device (Head Mounted Display, Gesture Tracking Device), By End-use, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Image-Guided And Robot-Assisted Surgical Procedures Market Growth & Trends

The global image-guided and robot-assisted surgical procedures market size is anticipated to reach USD 8.9 billion by 2030, according to a new report by Grand View Research, Inc. The market is projected to grow at a CAGR of 14.0% from 2024 to 2030. An increasing number of complex surgeries, trauma cases, and rapid technological advancements in image-guided robots are expected to propel revenue growth in this market.

Surgical procedures have witnessed a transformation due to technological advancements such as microscopic cameras, three-dimensional (3D) imaging, motion sensors, and remote navigation and robotic catheter control systems in image-guided robots. This, in turn, has enhanced surgical outcomes. The introduction of surgical robots is another factor influencing overall positive health outcomes owing to reduced surgical time and errors. Da Vinci Surgical robot is the most widely used system for complex surgeries. It is accompanied by a computer-enhanced system and enhances its capability of performing laparoscopic surgeries.

North America accounted for the largest share in the global image-guided and robot-assisted surgical procedures market followed by Europe in 2023. The U.S. accounted

for 88.2% of the total global market share in 2023 mainly due to higher penetration of robotics and increasing awareness about minimally-invasive surgeries. Developing economies such as Latin America and Middle East & Africa have witnessed lower adoption owing to the existence of price-sensitive end users. Asia Pacific is projected to expand at a CAGR of 18.5% over the forecast period owing to factors such as improving healthcare infrastructure and increasing penetration of image-guided robots. These factors are expected to contribute to regional demand in the near future.

Image-Guided And Robot-Assisted Surgical Procedures Market Report Highlights

General surgery dominated the market and accounted for the largest revenue share of 24.2% in 2023. This growth is driven by the increasing demand for minimally invasive surgeries, which enhance patient recovery times and reduce complications, leading to a rise in their adoption.

Hospitals led the market, accounting for the largest revenue share of 56.4% in 2023. The high volume of surgical procedures performed in highly equipped and well-established healthcare services.

The North America image-guided and robot-assisted surgical procedures market dominated the global market and accounted for the largest revenue share of 50.5% in 2023.

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