

Global Surgical Imaging Market: Overview, Growth Drivers, and Future Trends

PORTLAND, OR, UNITED STATES, August 4, 2025 /EINPresswire.com/ -- The global [surgical imaging market](#) was valued at approximately \$1,063 million in 2018 and is expected to reach \$1,496 million by 2026, growing at a CAGR of 4.3% between 2019 and 2026. This steady rise is driven largely by the expanding adoption of minimally invasive surgical procedures and technological innovations within surgical imaging systems.

What is Surgical Imaging?

Surgical imaging systems are intra-operative imaging tools primarily based on X-ray technology, designed to provide real-time visualization during surgeries. These systems include:

C-arms (2D/3D mobile or mini versions), commonly used for procedures in orthopedics, neurosurgery, cardiovascular, and cranial surgeries.

Flat Panel Detectors (FPD) and Image Intensifiers, which enhance image quality for better surgical guidance.

Emerging systems like O-arms and G-arms offering integrated imaging solutions.

These technologies help surgeons enhance precision, reduce complications, and improve surgical outcomes.

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Key Market Growth Drivers

Rise in Minimally Invasive Surgeries: Increasing number of procedures requiring precise imaging



guidance fuels demand.

Technological Advancements: Innovations like flat panel detectors enable higher resolution images, improved clarity, and easier integration with software tools.

Growth of Hybrid Operating Rooms: Surge in hybrid ORs combining surgical and imaging capabilities boosts demand for integrated and versatile imaging systems.

Increasing Use in Orthopedic and Neurosurgical Procedures: Orthopedic applications lead the market due to widespread adoption of c-arms for fracture fixation and implant placement; neurosurgery expected to witness the fastest growth.

Market Segmentation Breakdown

By Modality Type

Mobile C-arms: Widely used for their flexibility and mobility across operating rooms.

Mini C-arms: Specialized small-footprint devices used for hand, wrist, and foot surgeries.

Others: Include O-arms, G-arms, and other specialized surgical imaging modalities.

By Technology

Flat Panel Detector (FPD): Dominant revenue segment thanks to superior image quality, stability (no moving parts), and ease of software integration.

Image Intensifier: Traditional technology still in use but being gradually replaced by FPD due to lower image quality and maintenance issues.

By Application

Orthopedic & Trauma Surgery: Largest segment by volume and revenue, driven by high demand for intraoperative imaging in bone-related surgeries.

Neurosurgery: Fastest growing segment, stimulated by the rise in neurological procedures requiring precise image guidance.

Cardiovascular Surgery

General Surgery

Other Surgeries

By Region

North America: Significant share due to advanced healthcare infrastructure, high surgical procedure volume, and early technology adoption.

Europe: Mature market with steady growth.

Asia-Pacific: Fastest growth prospects due to increasing healthcare investments, large patient population, and rising awareness of surgical imaging benefits.

LAMEA: Growing but restrained by economic and infrastructural challenges.

Regional Insights: Focus on Asia-Pacific

Asia-Pacific presents an attractive opportunity driven by:

Large population and burgeoning demand for advanced surgical procedures.

Improvements in healthcare infrastructure and rising awareness of minimally invasive techniques.

However, adoption is limited by the high cost of surgical imaging equipment, and incomplete insurance coverage impacts market penetration in many countries.

Competitive Landscape

Key market leaders are continually innovating and expanding portfolios to capture growing demand. The major players profiled include:

GE Healthcare (General Electric)

Koninklijke Philips N.V.

Siemens Healthineers AG

Medtronic plc

Shimadzu Corporation

Toshiba Medical Systems Corporation

GENORAY Co. Ltd.

Hologic, Inc.

Whale Imaging, Inc.

Ziehm Imaging GmbH

These companies focus on launching next-generation imaging devices with enhanced features such as improved 3D imaging, reduced radiation doses, and seamless integration with surgical workflows.

Market Outlook

Driven by technological progress and the increasing preference for minimally invasive surgeries globally, the surgical imaging market is set for steady growth. The shift towards flat panel detector-based systems will continue due to their superior performance and software compatibility. Meanwhile, infrastructure developments, especially in emerging regions like Asia-Pacific, will open new avenues for market expansion despite cost challenges.

Integration of artificial intelligence and augmented reality in surgical imaging could further revolutionize intraoperative visualization, enhancing surgical accuracy and patient safety in the future.

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