RADIONICS™

Trusted Accuracy

OMNISIGHT™ EXcel

Simplified Image-Guided Surgery

For over sixty years, Radionics has been a world leader in the medical device industry, specializing in accurately locating precise points in space with stereotactic head frames, stereotactic computer software and imaging technologies. In collaboration with renowned surgeons, we continuously work to develop technologically advanced, reliable, user-friendly products that provide trusted accuracy to meet the demands of surgeons and patients around the world.

Burlington, Massachusetts

Image-Guided Technology

OmniSight™ EXcel increases surgical precision which leads to less invasive procedures that result in decreased surgery time, better outcomes and shorter hospital stays for the patient.

Innovators

Radionics has been at the forefront of image-guided surgery since its inception, pioneering the Operating Arm System in 1995. This system incorporated an innovative passive articulating arm and had a powerful computer workstation, allowing the surgeon to match diagnostic scans to patient anatomy and use these images for interactive planning and navigation. Since then, Radionics has engineered some of the most intuitive image-guided systems on the market.

OTS
Optical Tracking System advanced the field of image guided surgery.

OmniSight™
Regarded as the premier image-guided surgery system on the market with units installed world wide.

OmniSight™ EXcel
Built for customization with multiple surgical applications and a two-piece, modular design that optimizes O.R. set up, transport and storage.

Scan 1
Acquire patient pre-operative scans using fiducials or anatomical landmarks.

2 Plan
Accurately register patient and utilize VersaTool™ to locate areas of interest and set a course to target.

Navigate 3
Start tracking tools on patient anatomy.

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Exclusive OmniSight™ EXcel Software

Allows the surgeon to optimize the surgical environment while enhancing overall reliability, versatility and ease-of-use.

Virtual Trajectory Planning Tool - Allows the surgeon to simulate angle of passage through the patient's anatomy, visualize critical structures, depth and, localize the target lesion before making a surgical incision.
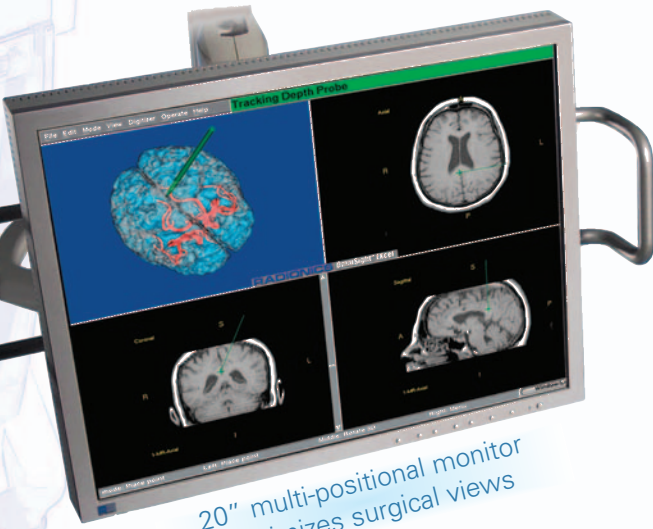
VersaTool™ Instrument Calibrator - Allows for quick and easy calibration of virtually all rigid surgical instruments for tracking with the OmniSight™ EXcel.

Touch Free Navigation - Use any OmniSight™ EXcel calibrated instrument to control all software functions from the sterile field, eliminating the need for a draped monitor, keyboard, mouse or assistant during surgery.

Advanced 3D Visualization

The advanced software feature of the OmniSight™ EXcel system enables the surgeon to easily generate 3D images and manipulate the data in real time. Cortical and Vascular segmentation as well as a contouring feature increases visualization near critical areas of the brain, reducing the risk of potential injury and improving the patient outcome.

Contouring - Allows the surgeon to manually draw any internal structure, such as a brain tumor so it can be seen in the 3D view, ideal for determining the optimal approach.

Vascular Segmentation - Generates a clear, defined vascular tree, ideal for targeting or navigating on or around vessel structures.

Cortical Segmentation - The cortical segmentation mode allows surgeon to segment out white and grey matter of the brain, use the 3D rendering to visualize the brain's surface, plan the optimal trajectory, and avoid critical structures.

20" multi-positional monitor maximizes surgical views

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Radionics designs its products to deliver the highest accuracy and provides the quality assurance tools, training, and service to ensure reliability and safety. Customers and patients alike have come to trust the accuracy of Radionics products every day around the world.

NeuroSight™ Software
Comprehensive platform for standard neurosurgical image-guided cranial procedures.

SinuSight™ Software
Expands visualization and positional information as the surgeon nears the skull base and other critical anatomy in the sinuses.

SpinalSight™ Software
Complete three-dimensional visualization for standard image-guided spine procedures.

Calyx™ Software
Allows the surgeon to take initial fluoroscopic shots and track instrumentation in real-time, reducing radiation to patient and staff.

MicroSight™ Software
Tracks Zeiss, Leica and Moeller surgical microscopes without recalibration. Combines the microscope's precision optics with the unequaled localization of OmniSight™ EXcel.

NeuroSight™ Arc Software
Simplifies preoperative neurosurgical trajectory planning for the CRW™ stereotactic system.

ImageFusion™ Software
Allows scanned images to be fused together to enhance stereotactic accuracy and provide High Definition Radiation Therapy (HDRT™).
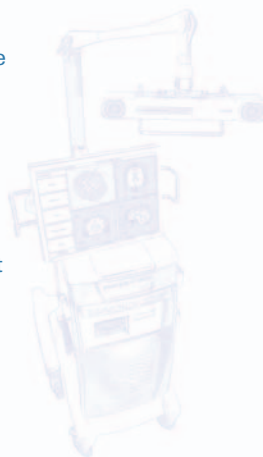
Unrivaled Support for OmniSight™ EXcel

Radionics Unrivaled Support provides a comprehensive service package for the OmniSight™ EXcel image guidance system.

Support Features Include:

- 24/7 Technical Support

- On-site visits by our Technical Support and Clinical Specialist

- Extended Warranty on OmniSight™ EXcel Hardware

- Remote Diagnostics

- Software Upgrades

- Ongoing Training

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