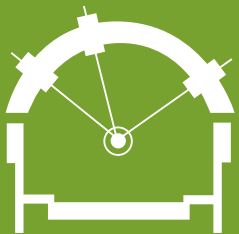
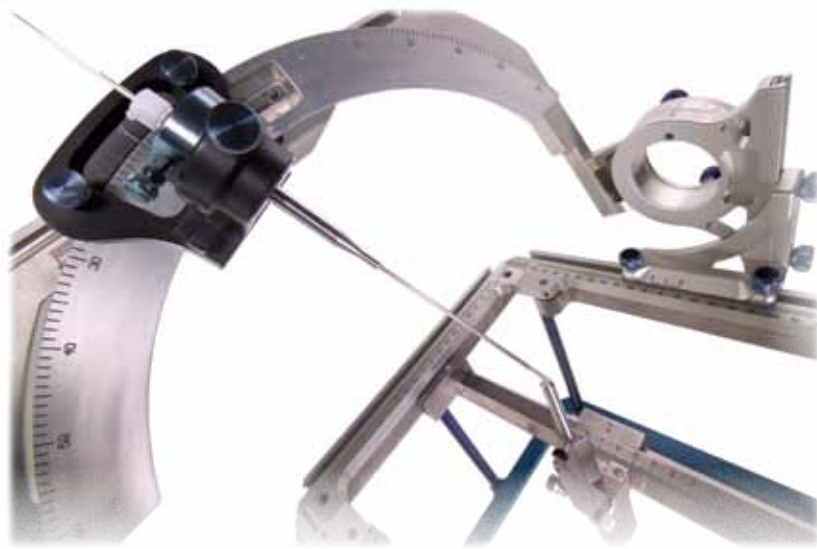


Radionics® CRW™

STEREOTACTIC SYSTEM



- Simple Solutions to Complex Problems
- Trusted Accuracy
- Unrivalled Support

STEREOTAXY

TRUSTED ACCURACY

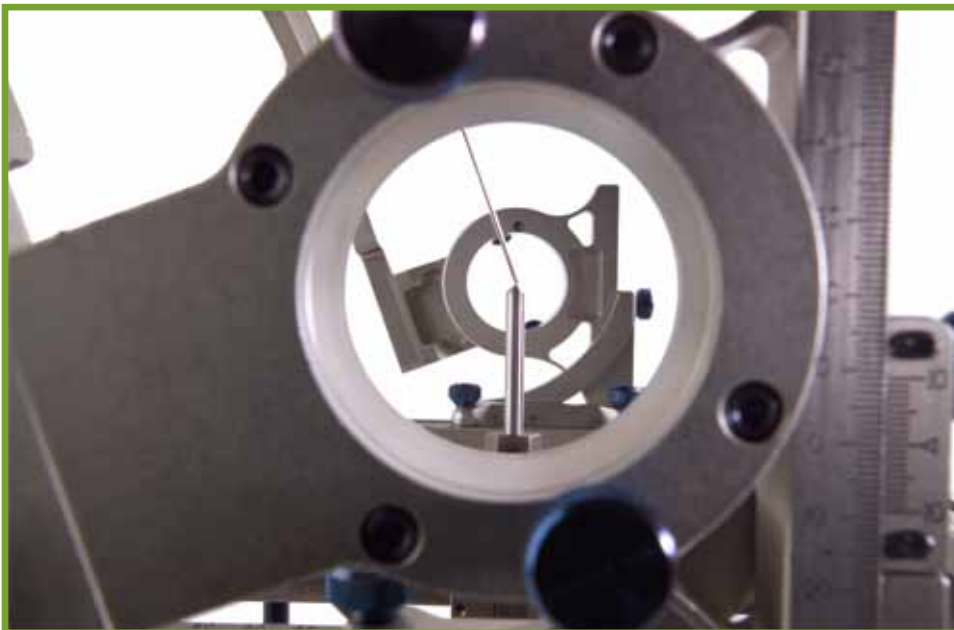
For over seventy years, Radionics® products have been at the forefront of the medical device industry. For accuracy, reliability, and simplicity, nothing else comes close to the Radionics® CRW™ stereotactic system.

Repeatable sub-millimeter targeting accuracy with a rigid stereotactic system is essential for patient safety in stereotactic neurosurgery. The Radionics® CRW™ system maintains unparalleled patient stability and frame rigidity during the most demanding procedures.

- Secure four-pin fixation of the head ring to the patient
- Secure fixation to the MAYFIELD® head holder
- High tensile strength aircraft grade aluminum construction
- Dual locking screws secure each coordinate setting
- A unique Phantom Base for additional quality assurance through independent target setting verification



Radionics® CRW™ arc mounted on Phantom Base



CUSTOMIZATION

The Radionics® CRW™ stereotactic system represents a single planning and delivery platform allowing surgeons to embrace a constantly expanding range of neurosurgical therapies and techniques.

IMAGING

- Localizers: CT (BRWLF) and MR/CT (Luminant™)
- Head Rings: CT (HRAIM) and MR/CT (UCHRA)

SURGICAL TOOLS

- Nashold Disposable Biopsy Needle
- Standard and Salzman Drill Kits
- Standard and Digital Probe Microdrives
- Guide Tubes, Cannulas, Stylets
- Radionics® CRW™ BiopsyPlus Kit

PLANNING SOFTWARE

- StereoCalc™ software is an easy-to-use Windows® based solution for target and trajectory coordinates, eliminating the need for scanner clamping and manual coordinate calculations.
- For precise anatomical planning, NeuroSight™ Arc planning software streamlines and optimizes target and trajectory selection.
- ImageFusion™ software automatically correlates thousands of points from two image sets, providing true volumetric fusion of anatomical data sets.
- AtlasPlan™ software is seamlessly integrated into the planning process, correlating user defined target and trajectory settings with the Schaltenbrand & Wahren* atlas.

PATIENT ACCESS

- Head Ring Positioners
- Ear Bar Positioners
- Head Ring Extenders
- Standard and Flat MAYFIELD® Adapters
- 30° Probe Holder Offset
- Removable Anterior Plate
- Lateral and A/P Reticles

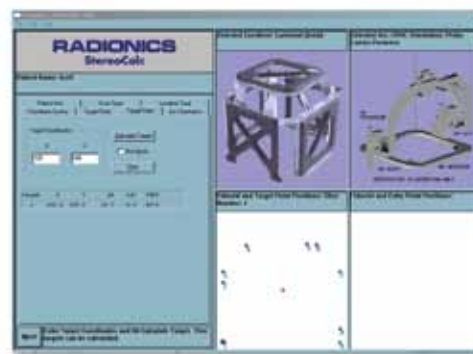
*© George Thieme Verlag, Stuttgart/New York



NeuroSight™ Arc with AtlasPlan™ module

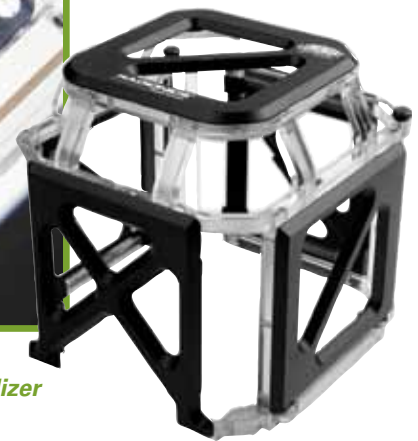
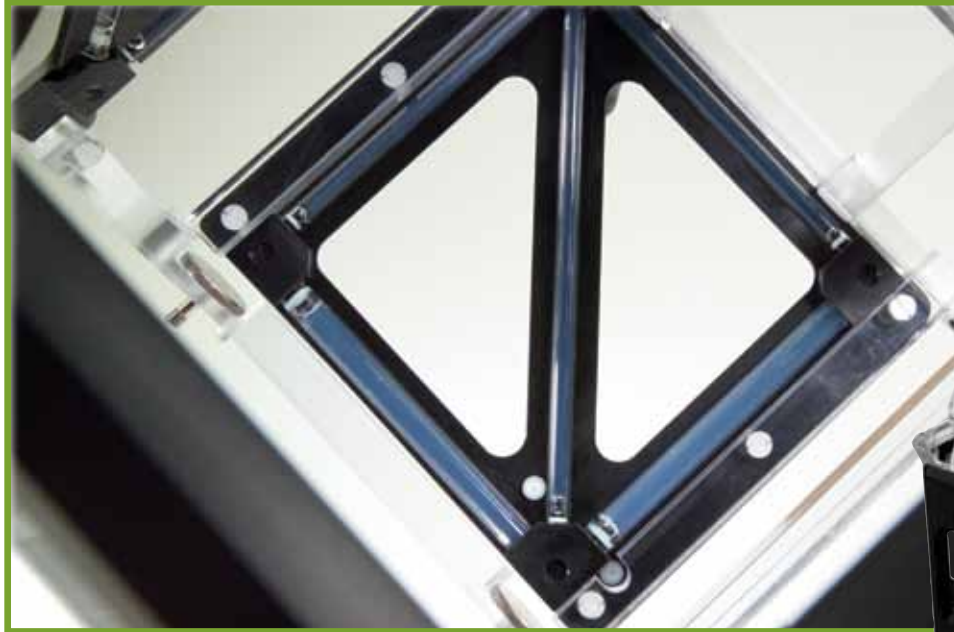


ImageFusion™ Software



StereoCalc™ Software

DEVELOPMENT



Radionics® Luminant™ MR/CT Localizer

Our continuous product development reflects an intimate knowledge of the latest neurosurgical techniques and technologies.

The **Radionics® Luminant™ MR/CT Localizer**, a recent innovation from Integra NeuroSciences, represents the only MR/CT localizer with pre-filled rods and does not require daily servicing. The Radionics® Luminant™ is a fast and reliable way to obtain clear and distinct fiducial points in both MR and CT scanners.

NeuroSight™ Arc anatomical planning software generates precise computer images of target structures enabling the surgeon to select the optimal approach. The highly versatile software is ideal for planning biopsies, stereotactic craniotomies, and placing electrodes during functional procedures. Its features include:

- Simple interface
- Unlimited image sets
- Pre-planning on non-localized images
- 3-D tilt correction on head ring relative to patient's anatomy



NeuroSight™ Arc Planning Software

EFFICIENCY

From start to finish, the features of the Radionics® CRW™ stereotactic system significantly reduce time in the operating room.

Frame fixation to the patient is done quickly using local anesthetic and four self-penetrating screws which create an immobile and stable platform for scanning, planning, and treatment.

Scanning is simplified because no fixation to the scanner table is necessary. Neither StereoCalc™ nor NeuroSight™ Arc planning software require orthogonal placement of the localizer within the scanner to generate accurate target and trajectory coordinates.

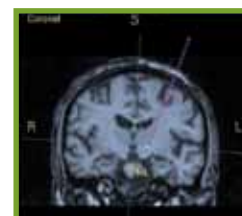
Together, NeuroSight™ Arc and ImageFusion™ software allow **trajectory and target preplanning** prior to the day of surgery. The software can be used to acquire a non-localized MR, CT, or PET scan and plan a target and trajectory, days before the surgery. That plan is then fused with a localized CT or MR scan taken the day of the surgery to obtain stereotactic coordinates.

Quality assurance is designed into the Radionics® CRW™ system to ensure patient safety and to eliminate procedural delays. Planning software includes geometric checks to confirm localizer accuracy and arc set-up. The phantom base provides verification of arc calibration and also independent target coordinate setting confirmation.

The unique design of the Radionics® CRW™ system allows the head ring to be **sterilely draped** independently of the arc. This ensures that the sterile field remains uncompromised when the **arc is placed on the head ring** and when **arc target, trajectory, or orientation adjustments** are made during the procedure.

Patient and surgical site access is simplified with a variety of tools. A 30 degree offset probe holder gives unobstructed access to the surgical site, head ring extenders shift the scannable volume for deep tumors, a removable anterior plate provides patient comfort and airway access, and ear bar positioners enable anatomical alignment of the head ring.

The Radionics® CRW™ system includes the **surgical tools** needed to ensure an efficient and safe procedure. Tissue sampling is efficient and straightforward with the disposable Nashold biopsy needle, or the CRW™ BiopsyPlus Kit. The biopsy needles for both are designed with high seal strength between the cannula and needle, and hub and syringe luer.



ENHANCEMENTS

Today's Radionics® CRW™ stereotactic system incorporates materials, design, and engineering improvements that greatly enhance its usability and functionality.

Repeatable sub-millimeter targeting accuracy with a rigid stereotactic system is essential for patient safety in functional neurosurgery. The Radionics® CRW™ system maintains unparalleled patient stability and frame rigidity during the most demanding procedures.

- CT localizer scoops ensure fit over extended head ring screws and patient nose
- Anodized aircraft grade aluminum to withstand operating room and central processing environments
- Slides, posts, and rings move smoothly ensuring that target and trajectory coordinates are easily set
- Submillimeter settings are achieved with vernier scales at each target setting
- Titanium double locking thumb screws secure all coordinate settings
- A removable anterior section on the arc allows for unrestricted access to the patient's airway and to allow extremely low target approaches
- Lateral and A/P reticules for intraoperative x-rays to visualize device placement at target during procedure



CT scanning set-up

Operational set-up

MR/CT scanning set-up

UNRIVALED SUPPORT

Integra NeuroSciences stands behind the quality and accuracy of every Radionics® CRW™ stereotactic system component delivered to our customers.

Far beyond the delivery of product to your operating room, Integra NeuroSciences provides the quality assurance tools, training, and service to ensure continuous reliability and safety. Service agreements for the Radionics® CRW™ stereotactic system and software are a key part of this system. Benefits of the service program may include:

- Preventive maintenance
- Annual calibration of the Radionics® CRW™ system
- Software upgrades and updates
- 24/7 Technical Support
- Loaner equipment
- On-site clinical support
- In-service and training by Integra NeuroSciences representatives



Radionics® CRW™

STEREOTACTIC SYSTEM



The standard for stereotactic accuracy yesterday, today, and tomorrow...

Integra NeuroSciences 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 Integra NeuroSciences products every day around the world.



 **INTEGRA™**
NeuroSciences

OPERATE WITH CONFIDENCE™



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Ruggles™
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