

SIMPLICITY IN NEURONAVIGATION

Brainlab Cranial Navigation. Efficiently combining decisive aspects of neurosurgery.



Brainlab[®] Cranial 3.0 provides a new user experience on Kick[®] and Curve[™] navigation platforms. Fully DICOM-based, cranial navigation and Brainlab Elements^{*} can run parallel with instant synchronization to update navigated image sets with new fusion results, SmartBrush[®] objects or trajectories.

NEW AND IMPROVED FEATURES IN CRANIAL 3.0

- > Further reduced user interface and automated workflows
- > Improved tracking robustness
- > Virtual bone flap removal with 3D Craniotomy Planning view
- > Motorized microscope alignment to trajectories
- > Improved visualization of objects in microscope Head Up Display
- > Digital BK Medical ultrasound integration* with full-resolution transmission of images
- > VarioGuide assembly video for easy setup



Touchless registration with Z-touch

TIME-SAVING REGISTRATION*

Regardless of patient positioning, Brainlab Cranial offers multiple techniques for referencing patients to the system. Surface matching with touch-based pointer Softouch[®] or touchless laser pointer Z-touch[®] makes patient registration quick and easy. As both devices register CT and MR images without headsets or markers, registration scans can be avoided, helping to reduce navigation costs.



VarioGuide instrument holder

HIGH-PRECISION ALIGNMENT*

Surgeons can target pre-planned trajectories in less than a minute with VarioGuide[™]. As a universal instrument holder, VarioGuide offers continuous position feedback and precise step-by-step workflow guidance, for a variety of procedures. Surgeons are able to take biopsies, place shunts or guide an endoscope with increased confidence.



Microscope integration

MICROSCOPE INTEGRATION*

Brainlab Cranial supports all major neurosurgery microscopes. Passive markers attached to the microscope enable positional tracking and Head Up Display (HUD) of objects. This allows for ergonomic position orientation as well as autofocus on the navigated tool. Motorized features include point and trajectory alignment.



Selection of integrated ultrasound probes

INTRAOPERATIVE ULTRASOUND*

Brainlab ultrasound integration features live anatomical images overlaid directly onto pre-operative data offering surgeons real-time resection control and brain shift compensation. The open-platform technology offers a multitude of choices integrating various ultrasound probes from multiple vendors.