NEUROSURGICAL INTRAOPERATIVE ULTRASOUND

Complete overview of brain anatomy, brain shift, and lesion localization at time of surgery.

Real-time guidance to see extent of resection and assess residual tumor.

Exquisite images instantly - no adjustment needed.

Fully sterilizable neurosurgery transducers that can make direct contact with the brain and dura.

Outstanding details of brain anatomy shown using the craniotomy transducer.

Ventriculoperitoneal shunt placement shown using the burr-hole transducer and needle guidance.

Intradural spinal cord lesion shown using the intraoperative hockey stick transducer[1].

Sterilizable remote control

Dedicated neurosurgical ultrasound system with a simple workflow and minimal footprint

bk medical

NEUROSURGICAL ULTRASOUND NAVIGATION

Exclusive digital integration with Brainlab neuronavigation systems for full plug & play experience

NAVIGATE ON REAL-TIME IMAGES

Overlay of real-time ultrasound images onto preoperative patient data provides accurate orientation throughout the procedure.

VISUALIZE BRAIN SHIFT

Instant identification and assessment of brain shift enable compensation right away.

ACHIEVE PLANNED RESULTS

Repeated 3D ultrasound scans ensure continuous monitoring of the resection progress and comparison with planned extent of resection.

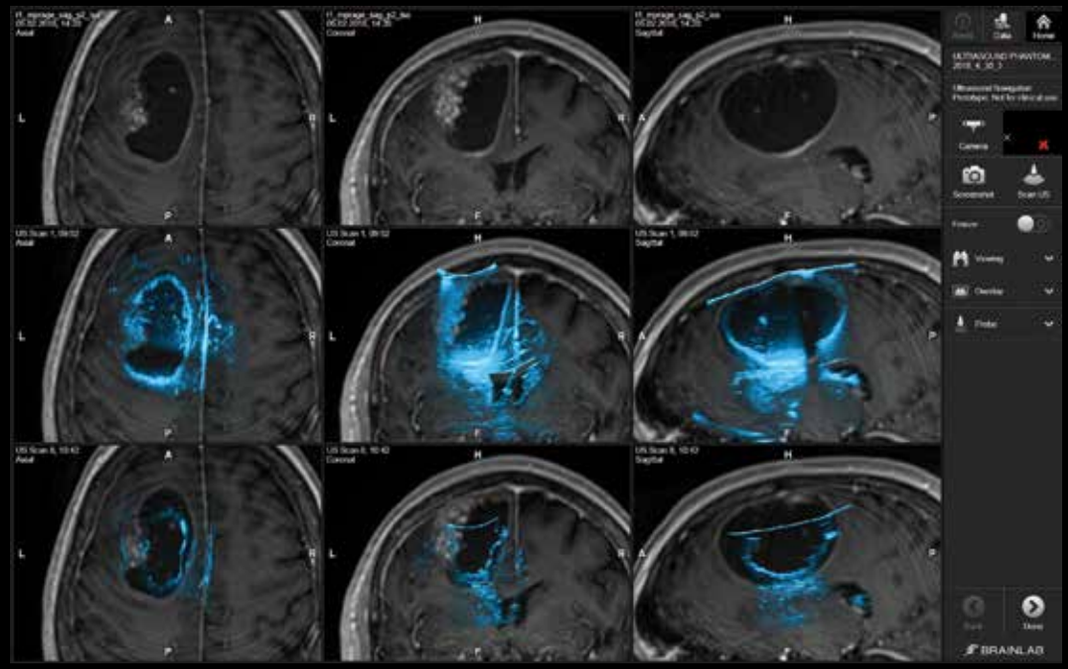
ACQUIRE IMAGES FASTER

Minimal interruption of surgical workflow compared to other imaging modalities.

[1] Use of the 'hockey stick' transducer for intraoperative (neuro) has not been CE-marked.

ULTRASOUND AND NAVIGATION MADE EASY

The digital connection between bk5000 and Brainlab neuronavigation systems ensures no loss of image quality and allows for instant transmission of additional valuable information such as the transducer's scan depth and image settings without the need of separate calibration.



Ultrasound Navigation Software showing two different intraoperative ultrasound scans reconstructed in axial, coronal, and sagittal planes and overlaid onto pre-operative MR (rows 2 and 3). The navigated 3D ultrasound scans (blue) provide up-to-date information on the actual extent of resection.

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BRAINLAB

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