The craniotomy transducer shows superb details of brain anatomy. Intradural spinal cord lesion X18L5s intraoperative hockey stick transducer.

The burrhole transducer shows ventriculoperitoneal shunt placement with needle guidance. 

Intradural spinal cord lesion X18L5s intraoperative hockey stick transducer.

Real-time complete overview of brain anatomy, brain shift, and lesion localization at time of surgery.

Real-time guidance on resection extent and assessment of residual tumor remnants.

Exquisite images instantly - no adjustment needed.

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

Sterilizable remote control

Dedicated neurosurgical ultrasound system with a simple workflow and minimal footprint.
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 perpetually provides accurate orientation.

VISUALIZE BRAIN SHIFT
Instant identification and assessment of brain shift enable compensation for it.

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.

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 probe’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.

¹ Use of the ‘hockey stick’ transducer for intraoperative (neuro) has not been CE-marked or licensed by Health Canada