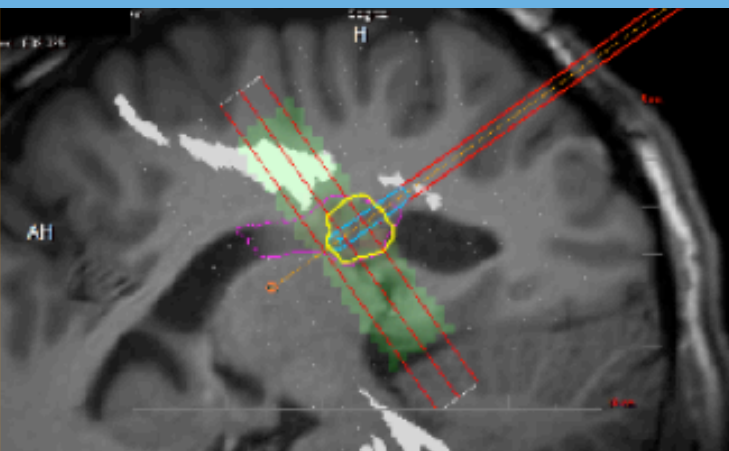


NeuroBlate®
S Y S T E M



NeuroBlate®
FUSION Software™

NeuroBlate® FUSION Software™

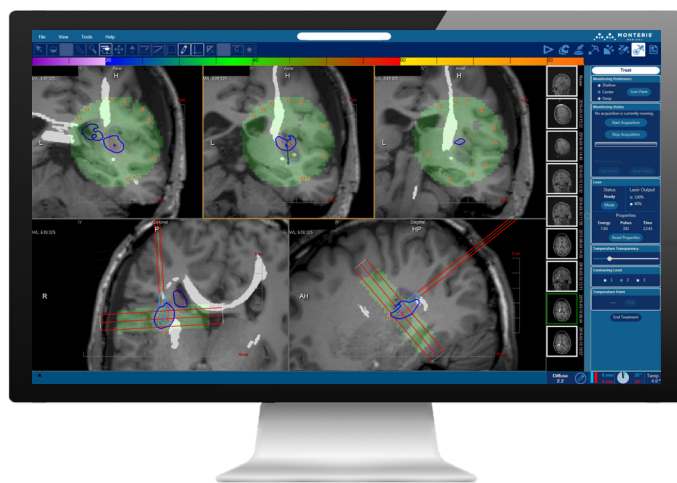
Monteris is pleased to introduce NeuroBlate® Fusion Software™, the exclusive software intelligence behind the NeuroBlate System. NeuroBlate Fusion Software™ allows neurosurgeons to plan, deliver, and monitor MRI-guided robotic laser thermotherapy. Now, NeuroBlate Fusion Software™ delivers even greater value to surgeons when addressing brain tumors or epileptic foci.

ADVANCED IMAGE CO-REGISTRATION TOOLS

Precisely Shape Ablation Margins for Assured Surgical Accuracy

NeuroBlate Fusion Software™ accepts image data processed by other imaging software, delivering surgeons needed information to optimize visibility and accuracy of the intended ablation target.

Enhanced image fusion tools allow for the import of pre-operatively planned, 3D objects, such as auto-segmented ablation target(s), post-processed fMRI data and DTI (fibertracking data). These objects can be superimposed over the static background images displayed during thermal imaging. This augments visualization of the ablation target and surrounding anatomy, resulting in higher procedural precision.



ENHANCED VISUALIZATION OF THE ABLATION TARGET

Additionally, NeuroBlate Fusion Software™ offers the ability to delineate the target ablation area or structures to avoid with interactive, multi-planar volume contouring tools.

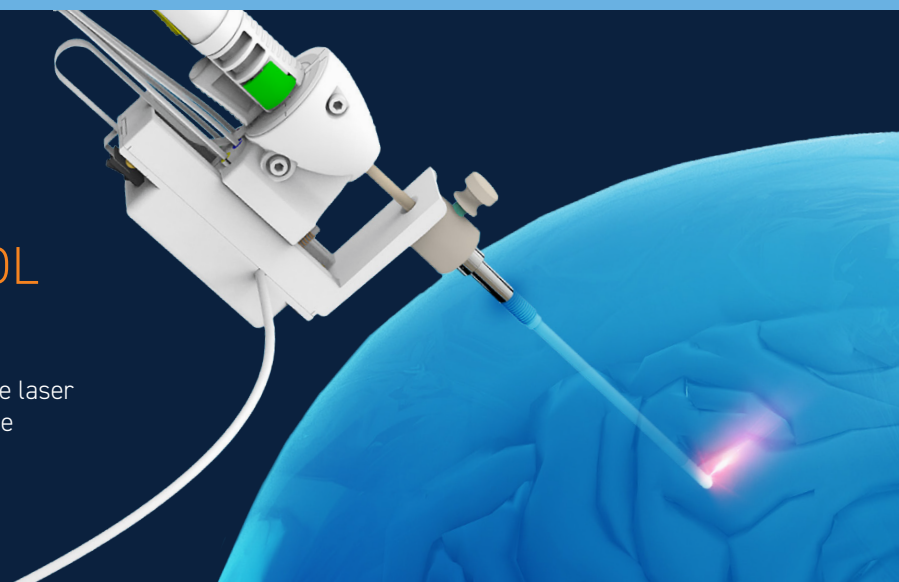
Monitor the intended ablation area in three orthogonal planes, as well as perpendicular slice planes above and below the center of the ablation zone. This eliminates the uncertainty associated with a “blind” ablation with no defined ablation zone.

When using MR thermometry to visualize an ablation, it is necessary to optimize voxel* size, MR acquisition time, and the number of planes presented. Visualizing the ablation in three dimensions and maintaining a minimum of an 8-second MR acquisition time is valuable information to the user, maximizing the opportunity for targeted ablation.

*“Voxel” is a three dimensional pixel obtained by a LITT system from the MR thermometry which, when combined, creates an enhanced visualization of the ablation zone.

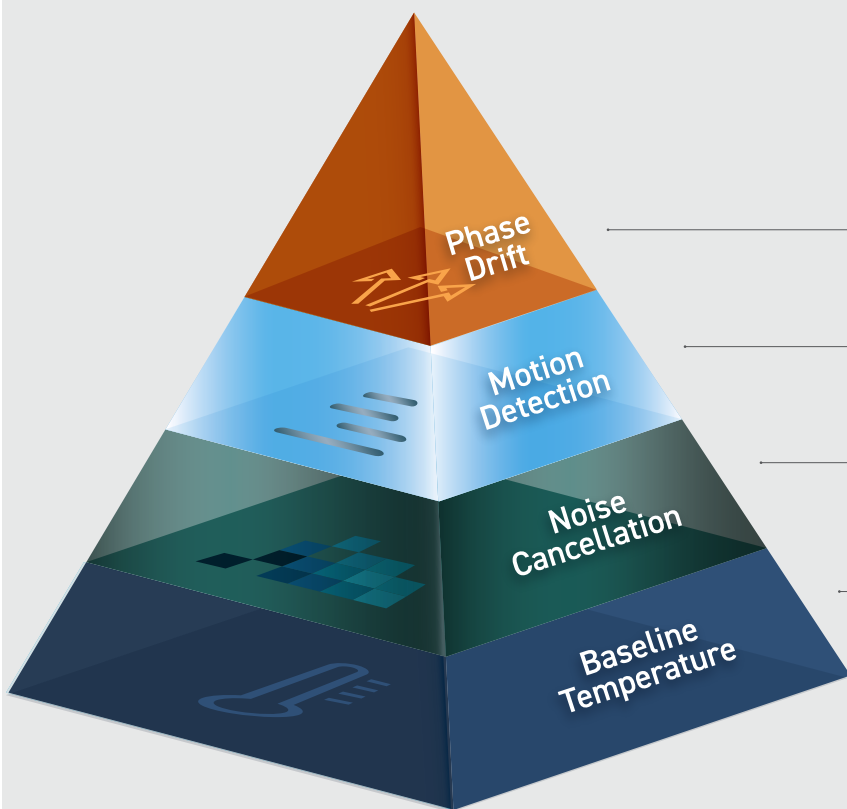
MAINTAIN ROBOTIC CONTROL OF THE LASER PROBE

Surgeons have the ability to maintain robotic control of the laser delivery probe position and directional orientation from the remote workstation throughout the ablation process.



BECAUSE PRECISION MATTERS, THERE IS TRUTEMP™ TECHNOLOGY

NeuroBlate Fusion Software™ features exclusive TruTemp™ technology (TruTemp), mitigating factors that negatively influence MRI thermometry, providing **confidence in the accuracy of the ablation zone and added safety assurance.**



TRUTEMP TECHNOLOGY

Proton resonance phase drift, which is inherent with all MRI scanners and can account for a several degree variance over short time intervals, is mapped and corrected.

The NeuroBlate System detects patient motion and significant RF noise events, and will automatically shut off the laser for added safety.

NeuroBlate removes pixels that exhibit unstable MRI signal and can cause inaccurate thermography.

Actual baseline body temperature is used as an input, rather than assuming 37° C. This assures that the ablation temperature is accurate for cell death.

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Rx Only

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