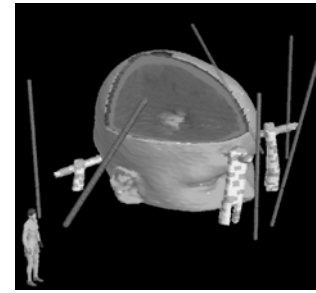


Scan Protocol (SRS/SRT)

Cranial / Head&Neck



How to scan cranial/H&N data for BrainLAB BrainSCAN software*:

<p>FoV (Field of View) Scan Range</p>	<p>All Scans: Maximum scan length for BrainSCAN 5.0 is 512 x Pixel-Size Maximum scan length for BrainSCAN 5.1 or higher is 1024 mm Recommended: Restrict scan range (total table movement) to necessary length</p> <p>Reference CT-Scan (with localizer):</p> <ul style="list-style-type: none"> Zoom in to a sensible FoV, the entire localizer must be visible (all localizer rods visible throughout the complete scan) <p>Pure Cranial Applications</p> <ul style="list-style-type: none"> Range from top of the head down to include all critical regions. Images without localization rods will not be usable. <p>Neck (spine, skull base) Applications:</p> <ul style="list-style-type: none"> Range only to include region of interest, all images must have all rods <p>All Other Scans (additional CT, MRI...)</p> <ul style="list-style-type: none"> No restrictions except max. length and must include outer contour
<p>Slice Thickness</p>	<ul style="list-style-type: none"> Sequential Scans. The resulting Slice thickness is determined by table increment (Slice distance) Note: If you experience localization problems when using a slice thickness of less than 2mm, please contact your BrainLAB Service Engineer. Spiral/Helical Scans: Reconstructed images are allowed. Slice distance may be changed during the scan. Max. 3 mm recommended for critical regions
<p>Scan Properties</p>	<p>CT:</p> <ul style="list-style-type: none"> Axial only Contrast chemicals allowed Scan for soft tissue windowing (with Kernel of about 40). <p>MRI:</p> <ul style="list-style-type: none"> Axial, sagittal, coronal (No reconstructions can be made from sagittal or coronal slices) T1, T2, angiographic possible
<p>Gantry Tilt/Angulation</p>	<p>Reference CT-Scan (with localizer):</p> <ul style="list-style-type: none"> Oblique slices are possible but not recommended <p>All other Scans (additional CT, MRI...)</p> <ul style="list-style-type: none"> Any kind of gantry angles can be used. Positive and negative values are allowed, but have to remain the same during scanning.
<p>Patient Orientation</p>	<ul style="list-style-type: none"> Strict supine position
<p>Scan Direction</p>	<ul style="list-style-type: none"> Cranial to caudal or caudal to cranial.
<p>Image/Pixel Size</p>	<ul style="list-style-type: none"> Must remain the same during the scan.
<p>Table Height</p>	<ul style="list-style-type: none"> Must remain the same during the scan.
<p>Image Compression</p>	<ul style="list-style-type: none"> Save images in uncompressed format.
<p>Matrix Size</p>	<ul style="list-style-type: none"> Squared recommended, e.g.: <ul style="list-style-type: none"> 256 x 256 512 x 512

* Based on PatXfer 4.21 or higher and BrainScan 5.0 or higher

* If you need additional information please contact your local BrainLAB Support Engineer