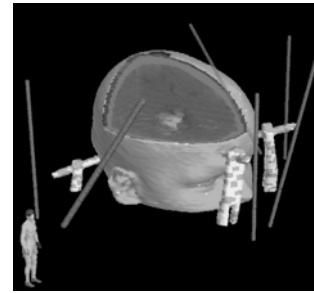


Scan Protocol Cranial / Head&Neck



How to scan cranial/H&N data for BrainLAB iPlan RT Image and iPlan RT Dose software*:

<p>FoV (Field of View) Scan Range</p>	<p>All Scans: Recommended: Restrict scan range (total table movement) to necessary length</p> <hr/> <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 for object definition. <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 <hr/> <p>All Other Scans (additional CT, MRI...)</p> <ul style="list-style-type: none"> No restrictions except must include outer contour
<p>Slice Distance</p>	<ul style="list-style-type: none"> Sequential Scans. The resulting slice distance is determined by table increment Note: If you experience localization problems when using a slice distance 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 For autosegmentation max. 3mm slice distance, complete scan.
<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 T1, T2, angiographic possible Contrast chemicals allowed
<p>Gantry Tilt/Angulation</p>	<p>Reference CT-Scan (with localizer):</p> <ul style="list-style-type: none"> Oblique slices ($\pm 10^\circ$) 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"> 512 x 512 1024 x 1024

* Based on PatXfer 5.2 / RT 1.0 or higher and iPlan RT Software 2.0 or higher

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