

## Scan Protocol - RT QA

How to Scan QA phantoms for the Brainlab RT Elements:

- RT QA 1.0 and higher

<b>FOV (Field of View) / Scan Range</b>	<b>All scans</b> <ul style="list-style-type: none"> <li>• <b>Recommended: Restrict scan range (total table movement) to necessary length</b></li> </ul> <b>CT</b> <ul style="list-style-type: none"> <li>• Range to include the complete phantom</li> <li>• Table top must be included</li> </ul>
<b>Slice Distance</b>	<ul style="list-style-type: none"> <li>• <b>Sequential</b> or <b>Spiral/Helical</b> scans are allowed</li> <li>• <b>Max. 3 mm slice distance</b>, complete scan. <b>Recommended: 1 mm scans</b></li> </ul>
<b>Number of CT Slices</b>	<ul style="list-style-type: none"> <li>• Maximum 399 slices for positioning with <b>ExacTrac</b></li> </ul>
<b>Scan Properties</b>	<b>CT</b> <ul style="list-style-type: none"> <li>• Axial only</li> <li>• Scan for soft tissue windowing (with kernel of about 40)</li> </ul>
<b>Gantry Tilt / Angulation</b>	<b>CT</b> <ul style="list-style-type: none"> <li>• <b>Oblique slices</b> are not supported</li> </ul>
<b>Setup</b>	<ul style="list-style-type: none"> <li>• Setup orientation of the phantom identical to the orientation during delivery</li> </ul>
<b>Scan Direction</b>	<ul style="list-style-type: none"> <li>• Cranial to caudal or caudal to cranial or analogous direction for non-anthropomorphic phantoms</li> </ul>
<b>Image / Pixel Size</b>	<ul style="list-style-type: none"> <li>• Must remain the <b>same</b> during the scan</li> <li>• Only <b>squared</b> pixels are supported</li> </ul>
<b>Table Height</b>	<ul style="list-style-type: none"> <li>• Must remain the <b>same</b> during the scan</li> </ul>
<b>Image Compression</b>	<ul style="list-style-type: none"> <li>• Save images in uncompressed format</li> </ul>
<b>Matrix Size</b>	<b>Squared recommended, e.g.:</b> <ul style="list-style-type: none"> <li>• 512 x 512</li> <li>• 1024 x 1024</li> </ul>

If you need additional information, please contact your local Brainlab support.

