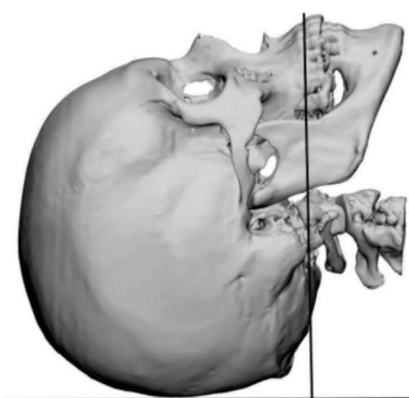


CT SCAN PROTOCOL

For the manufacturing of Kelyniam's custom cranial and craniofacial implants.

Accurate CT scan data and having recent DICOM CT images that adhere to the guidelines and parameters listed below is critical in reducing turnaround time and providing a precise fit.



Scanning Parameters

Acquisition	Axial/Helical
Field of View (FOV)	≥ 2 cm above/below area of interest
Gantry Tilt	0°
Occlusal Plane	Correct Position of the Patient
Spacing	Same as slice thickness
Slice Thickness	0.625 mm*
Pixel Size	0.60 mm or less
Algorithm	Standard and Bone / Detail / Sharp
Time	Use the shortest acquisition time that provides adequate image quality while minimizing patient motion.

**Up to 1.25mm slice thickness is accepted but not recommended.*

Scanning Guidelines

- Stabilize the patient. The patient must remain completely still through the entire scan. Normal breathing is acceptable, but patient motion (such as tilting and/or turning head) can severely distort imaging and compromise the accuracy of a model. If patient movement occurs the scan will need to be repeated to achieve a conforming scan.
- Reconstruction Algorithm: Use both standard, and the sharpest reconstruction algorithm available (usually described as bone or high resolution).
- Save the DICOM uncompressed image data (not raw data) to the accepted archive media listed for your scanner.
- Kelyniam recommends using CT scan data that is no more than four (4) months old for device design. As the interval between imaging and implantation increases, anatomical changes may occur that could affect implant fit.
- Save raw data for at least 14 days after scan in case of error in uploaded data.

Accepted Media Types

- Electronic Image Sharing via Powershare, Ambra / IntelShare, LifelImage, Stratus, Vertex, and more (Not available at all hospitals).
- FTP/web upload tool – upload the patient specific DICOM zip/compressed image files via our secured FTP/web upload tool. Request via email from intake@kelyniam.com.
- CD – mail CD with DICOM images to Kelyniam address below.

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