

CRANIOFACIAL CT SCANNING PROTOCOL

(FOR 3D ANATOMICAL MODELING)

RECOMMENDED IMAGING PROTOCOL

Acquisition:	Axial or Helical
Field of View:	25.0 cm
Gantry Tilt:	0° of inclination or declination
Scan Spacing:	0.65 to 1.25 mm
Scan Thickness:	0.65 to 1.25 mm
Algorithm:	Standard (no detail)
Amperage:	120 to 180 mA
Voltage:	120 kVp
Pitch Ratio:	1:1

RECOMMENDED SCANNING GUIDELINES

1. Call a Nexus CMF 3D Anatomical Modeling Technician for questions regarding this protocol or for support for a specific case
2. Have patient remove any jewelry and non-permanent prostheses or orthodontics within the scan area
3. Immobilize the patient to ensure that scans are free of motion artifacts (if patient motion occurs, the scan must be restarted)
4. In most cases, the patient should be scanned with natural occlusion depicted
5. Should the treating surgeon desire a different post-operative occlusion, the teeth must be separated with tongue blades (or other suitable mechanism) to create 4 to 5 millimeters of stable occlusal separation during scanning
6. If there are any questions regarding occlusion depiction, please contact the treating surgeon
7. Use the smallest field of view as possible while maintaining a clear margin of the patient's external contours
8. Ensure that the scan includes the entire mandible and maintains a margin of at least 5 cm superior to the temporomandibular joints

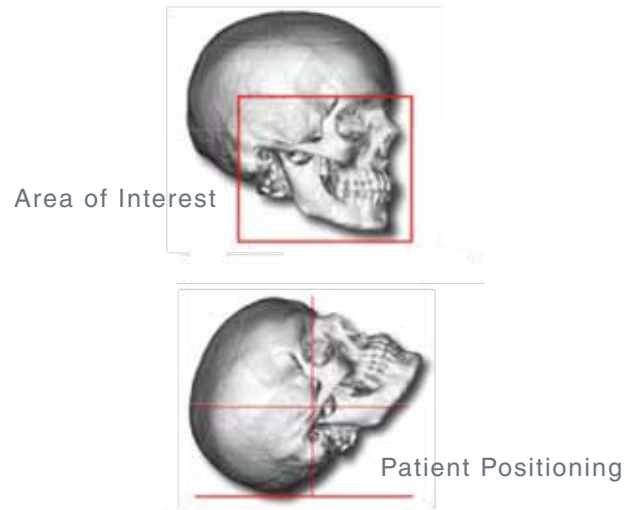


IMAGE PROCESSING AND DELIVERY

1. Archive the entire study in an uncompressed DICOM format in preparation for secure Internet file transfer or shipment by physical media
2. If using a single slice scanner, do not reconstruct images to slices that are thinner than the original acquisition
3. Call a Nexus CMF 3D Anatomical Modeling Technician for secure Internet file transfer instructions and support
4. If shipping physical media, send to the address below on recordable compact disks (CD-R)
5. Please archive the original data for a minimum of 72 hours beyond receipt of the scan by Nexus CMF (a 3D Anatomical Modeling Technician will call if there is a problem importing the scan)
6. Nexus CMF can import image data from most CT scanners and PACS system disks. Please have the CT Technologist call a Nexus CMF 3D Anatomical Modeling Technician for first-time use of this protocol or if you are using a low radiation scanner.

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