



Cranio Maxillo Facial CBCT Scan Protocol

MedCAD uses advanced image processing and manufacturing techniques to create an exact 3D replica of the patient specific structures from CT scan data. The accuracy of the 3D model depends on the quality of CT images. Your following of the recommended protocol is greatly appreciated as it will have a significant impact on the final models produced. Please feel free to call us at 214 453 8864 for any questions or clarifications.

Key requirements

1. **Patient immobilization:** Please **immobilize** the patient completely through the complete scanning process. **If any motion is detected during the scan, please restart the scan** as any motion artifact will severely compromise the image data and render it unusable.
2. **Remove all metal** jewelry, partial dentures, and other metallic articles that can obscure the anatomy in the region of interest (ROI).
3. **Please use a bite wafer to separate the maxillary and mandibular dentition (Figure).**
4. **Please use a median or any appropriate filter for reducing metal artifacts.**
5. **Transfer the complete data on to a removable media as CD or DVD and forward to MedCAD for further processing**

Suggested protocol

1. Use a voxel size - 0.4 X 0.4 mm.
2. Time: 40 seconds or longest available. May be reduced to 30 seconds in newer generation scanners.
3. Field of view to completely cover the region of interest.
4. Extended Field of view 16 cm(d) X 22cm (h).

