

Edentulous Cases | Radiographic Guide Protocol



Dual scans can be used for most patients. C-Dental recommends the dual scan for patients with 3 teeth or less.

Please follow the checklist below to make sure the radiographic denture will work properly for the scan.

THE DENTURE SHOULD HAVE ALL OF THE FOLLOWING:

- **NO soft reline!! (squishy inside)**
- NO metal or radiopaque material
- Excellent fit to soft tissue and patient cast
- Hard reline only - no soft reline or denture adhesive material on inside of denture
- 6 BB Stickers should be placed on the Denture for a Dual Denture CBCT of the patient wearing the Denture and the Denture by itself. We will merge the denture in the software program.
 - ***Make sure to thoroughly dry denture so they do not slip or move between scans or merge will fail. Get your stickers here: [Where to order 1MM BB Stickers](#)***



**** anchor pins**

PVS BITE SUPPORT

Dentures with **anchors to implants may not need a bite support, all other cases use PVS bite support to correctly seat the dentures to the intaglio surface during the patient scan. This is important to the planning process so that the implants will be placed correctly during the surgery. The Guide will have a duplicate fit of the denture.

PVS BITE SUPPORT FABRICATION INSTRUCTIONS ON PAGE 2



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STEP 1

TAKE PREFERRED POLYVINYL SILOXANE (PVS) IMPRESSION, OR IF NECESSARY, ALGINATE IMPRESSION WITH A PLASTER MODEL POURED IMMEDIATELY.

- No drag
- No pull
- No bubbles
- Cover palette
- Deep into vestibule
- Cover retro molar pad



STEP 2

PREPARE PLASTER MODELS

- Must accurately reproduce the buccal and lingual margins
- Vestibule must be clear and understated

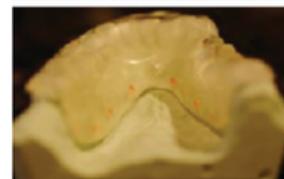
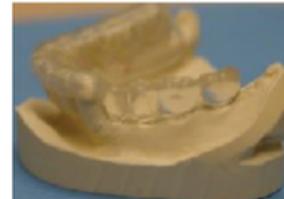


STEP 3

FABRICATE RADIOGRAPHIC GUIDE

 *The accuracy of this guide is very important, as it is the basis for fabricating the surgical guide.*

- Use clear orthodontic acrylic
- Tooth position and size should represent the final prosthesis
- The crowns should be distinctively represented on the facial/buccal and occlusal aspects of guide
- Guide should cover occlusal surface of full arch
- Guide should extend over the gums on lingual/palatal side



STEP 4

6 RADIOGRAPHIC MARKERS

- Get your stickers here: [Where to order 1MM BB Stickers](#)
- All lingual
- On varying horizontal planes
- On flange, below gingival plane on the mandible - above on maxilla



STEP 5

FABRICATE BITE SUPPORT FOR USE DURING CBCT SCAN

- Ensure no overlap of incisal or posterior occlusion
- Use stiff, radiolucent bite support material
- Cover complete arch
- If teeth are missing in opposing arch, fill edentulous space with index material to make contact with alveolar ridge

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IMAGING INSTRUCTIONS

- If the denture is not well-fitting or if it has soft relines or metal, you will need to make a new denture or a duplicate acrylic denture that is hard relined.
- Never perform the DENTURE SCAN with the bite support attached to the denture.
- Only use the bite support when you scan the patient with the denture.
- Make sure to thoroughly dry denture so the BB stickers do not slip or move between scans or the merge will fail.

Please see picture for proper setup in the machine.



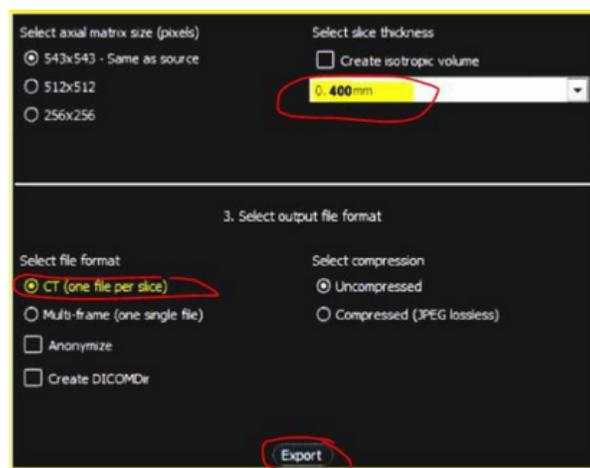
If you do not have this holder, you may use a styrofoam block and scan each denture individually.

The denture cannot be scanned directly on the scan platform.

Be sure the dentures are in the scanned in the correct orientation (as they would be in the patient's mouth).

DICOM CREATION & DELIVERY

- Select the option CT (one file per slice). You should have hundreds of .dcm files contained inside a folder
- Choose a .3 or 4 mm slice thickness
- Place only the DICOM folder and the U and L files inside a (patient name) folder
- Zip the folder (right click, send to compressed (zipped) folder). Upload the zipped folder titled with the patient name
- Upload using this link: [Upload link](#)



If you have any questions, please contact our Sara Tarazi - Chief Technologist

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