



Dual Scan Protocol

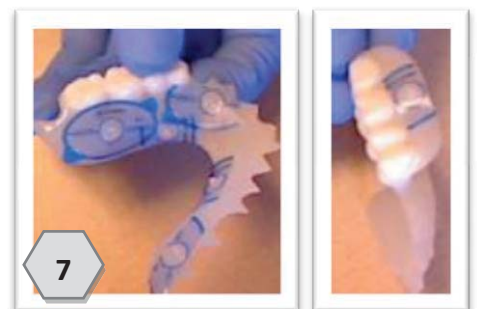
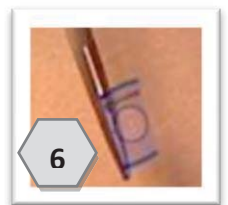
You will need the following:

- Patient
- Patient Denture or Removable Appliance
- SureMark CT-Scan Markers
- FutarBite Registration, Radiation Approved - Recommended for an edentulous arch(s)
- Chair Side Hard Reline – Recommended to ensure snug fit against the soft tissue – MUST be a NON metallic substance that is radiation approved such as Tokuyama Rebase-II

The Process

Preparation:

1. Start with a clear acrylic appliance (variation in composition can yield scatter in the image of the appliance; avoid this as much as possible). A well fitted denture with low radiopacity is acceptable as well.
2. Check the fit of the appliance.
3. Hard reline if necessary.
4. Dry the appliance prior to adhering markers. The markers should not move after application.
5. Mark the appliance with 6 markers for either a partial or full arch appliance.
6. Cut the markers if necessary so that they will fit on the appliance.
7. Place markers randomly on the appliance
 - a. Mesial
 - b. Distal
 - c. Superior
 - d. Inferior
 - e. Buccal
 - f. Lingual
8. Ensure there are **NO** markers on the intaglio (soft-tissue) surface.



Scan:

1. Scan the appliance first.
2. Position the appliance just as it sits in the patient's mouth on a foam or Styrofoam block.
3. Scan the appliance at **80KVP and 2ma if you are using a Carestream unit**. On ICAT, Sirona, Vatech continue to use the same patient morphology.
4. Confirm that all markers are clearly visible in the scan of the appliance.
5. Prepare a bite registration if the patient is wearing a full arch appliance to ensure that the appliance is seated correctly.
6. Scan the patient.
 - a. Use normal implant planning protocols and the largest field of view.
 - b. Ask the patient to bite firm on the bite registration to blanch the gums.
7. Confirm that all the markers are visible in the patient scan and that the appliance is seated properly.

