PALTOP Digital

Your Path to the Future

DUAL SCAN PROTOCOL

What is required for Dual Scan Protocol?

A full denture /Radiographic Guide which is:

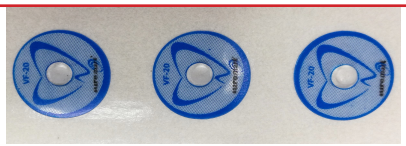
1. Stable & close fitting to the soft tissue
2. The denture has no metal components (wire mesh/plate, metallic crowns,wire clasps)
3. The denture base must be with a hard reline.
4. The tooth set-up should be ideal and represent the final desired result.
5. Desired vertical dimension.
6. In the case of an upper denture it must have full palatal coverage
7. The geometry of the denture is transferred to the surgical guide as an exact copy, therefore the flanges of the denture must fill the full depth of the sulcus and must be of reason able thickness for stability

Preparing the dentures or Radiographic Guide prior to CT

6-8 radiopaque markers are placed into the denture flange.
The markers should be spread around the arch.
In order to do this, 3mm diameter circular holes must be made apical to the teeth in the in the buccal or lingual/palatal flange.

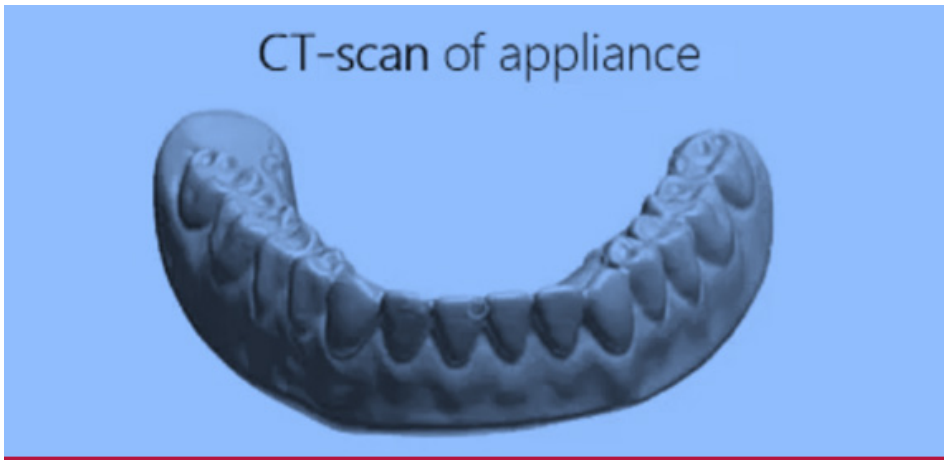
The holes are filled with radiopaque material, gutta percha or alternatively Paltop can provide you with radiopaque stick-on markers

Radiopaque Markers

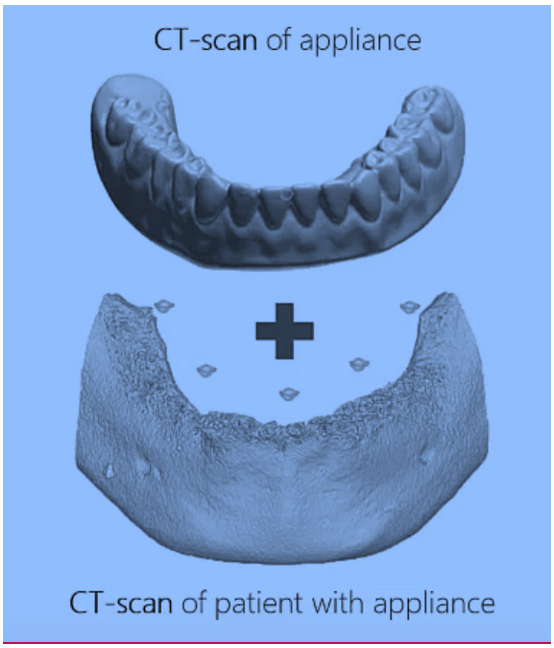


How to scan:

1. A CBCT scan is taken first of the denture by itself at 2-3Ma. It should be reviewed to be sure all radiopaque markers and the denture can be seen and does not contain any holes.



2. A CBCT scan with the patient wearing the denture is now taken at the conventional settings of 9-12Ma. The maxilla and mandible should be separated in an open bite with the help of cotton rolls or a silicone bite registration.



Please confirm that your CBCT center/technician understands the Dual Scan Protocol procedure prior to taking the CBCT scans of the patient/denture. This is very important to avoid exposing the patient to unnecessary radiation. Please do not hesitate to contact Paltop Digital for further instructions. We will also be happy to recommend experienced CBCT centers for this procedure.

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