

# Comprehensive Scanning Requirements for Digital Wax-Up Design

This document serves as a detailed guide, outlining the necessary scans required to capture the intricate details and characteristics of the patient's dentition to achieve exceptional results in digital wax-up design. A meticulous approach to scanning is paramount to unlock the full potential of digital technology in the pursuit of optimal esthetics, function, and patient satisfaction. Throughout this document, we will delve into the various types of scans that need to be conducted, elucidating their significance and purpose in the digital wax-up design process.

We encourage you to carefully review the scanning requirements presented in this document, adapting them to your specific clinical setting and preferences.

## **Dentate patient with established VDO\*:**

- 1- Upper IOS/ PVS Impression 2- Lower IOS/  
PVS Impression 3- Bite scan 4- Extra-Oral  
Photos / Facial scans if available

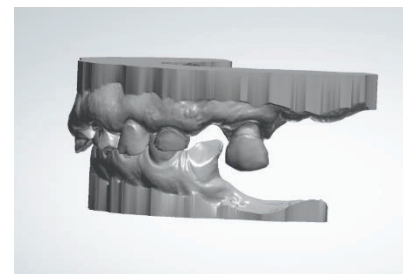
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## **Dentate patient with loss of VDO and absence of PD\*:**

Due to the loss of occlusal stoppers

Patient Visit No.1: Providing us with the needed scans to fabricate a wax rim, that will be used in another visit to establish the proper VDO of the patient in centric relation.

- 1- Arch of interest IOS capturing the entire oral vestibules and soft tissue anatomy  
**OR**  
PVS\* Impression
- 2- Antagonist IOS  
**OR**  
PVS Impression
- 3- Bite using bite registration material.



Patient Visit No. 2: After adjusting the wax rim according to the patient's centric relation.

- 1- The arch of interest IOS with the wax rim in place after establishing the proper VDO.
- 2- Antagonist IOS
- 3- Bite IOS with the wax rim in place.
- 4- Extra-Oral Photos / Facial scans if available.

\*In case of missing anterior teeth, please annotate the midline and the canine lines on the wax rim.

In case of Analogue data, please ship the wax rim in occlusion with the antagonist tied together with rubber bands with the bite in between, along with the models back to the lab.

## **Partially Edentulous with PD (Digital Workflow):**

- 1- IOS of the arch of interest with the PD in place.
- 2- IOS of the antagonist.
- 3- Bite scan with the PD in place.
- 4- IOS of the arch of interest without the PD.
- 5- Extra oral photos with and without the PD / Facial Scans if available.

Please ensure all IOS are taken in the same project of your Intra-Oral scanner software to be exported in the same coordinates.

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## **Partially Edentulous with PD (Analog Workflow):**

- 1- PVS impression of the arch of interest with the PD in place.
- 2- Bite registration with the PD in place.
- 3- PVS impression of the antagonist.
- 4- PVS impression for the arch of interest without the PD.
- 5- Extra oral photos with and without the PD / Facial Scans if available.

Note: It's recommended to pour the impressions, assemble both models tied together with the bite in between using rubber bands and ship it altogether to our partner lab.

## **Edentulous Arch of interest (Digital Workflow):**

- 1- **Dual Scan Protocol.: 1- CBCT of the Denture 2- CBCT of the patient**  
\*For more info. On the dual scan protocol, please refer to the dual scan protocol PDF.
- 2- IOS of the denture inside the patient's mouth with the same fiduciary markers.
- 3- Antagonist.
- 4- Bite with the Denture in place.
- 5- Soft tissue scan of the edentulous arch. (This is an optional step, however it can be very helpful in case of suboptimal dual scan)
- 6- Extra Oral Photos.



## **Edentulous Arch of interest (Analog Workflow):**

- 1- **Dual Scan Protocol.: 1- CBCT of the Denture 2- CBCT of the patient**  
\*For more info. On the dual scan protocol, please refer to the dual scan protocol PDF.
- 2- Impression of the denture inside the patient's mouth.
- 3- Bite with the denture in place.
- 4- Antagonist PVS impression
- 5- Soft tissue impression of the edentulous arch. (This is an optional step, however it can be very helpful in case of suboptimal dual scan)
- 6- Extra Oral Photos.

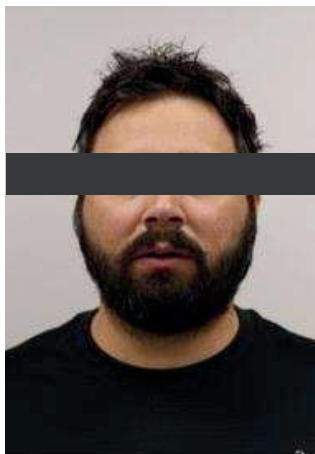
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\*PVS: PolyVinyl Siloxane \*PD: Partial Denture \*VDO: Vertical Dimension of occlusion

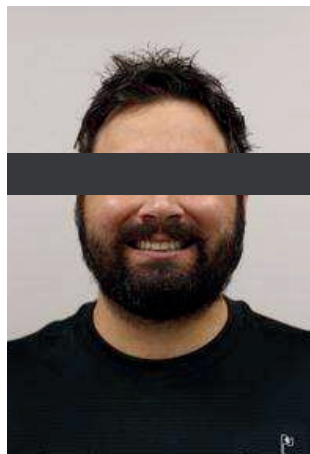
## Extra-Oral Photos Requirements

Patient clinical pictures required (resting, smiling, maximum smile, retracted lips, profile, & profile smiling).

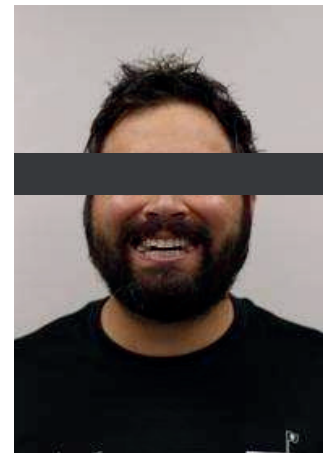
*It is recommended to include a profile smiling picture while being in occlusion to confirm the bite. Please make sure that the camera is at the level of the patient's face and the patient is at 12 o'clock position, with the patient's mandible parallel to the floor.*



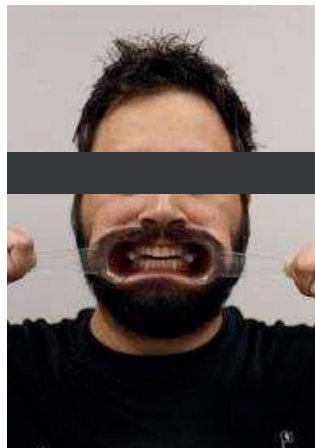
Resting



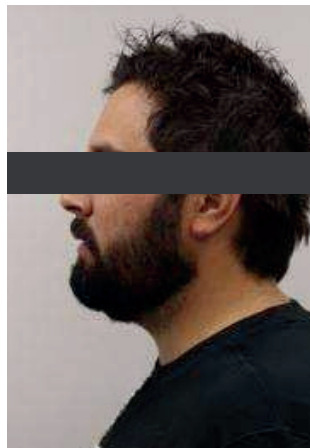
Smiling



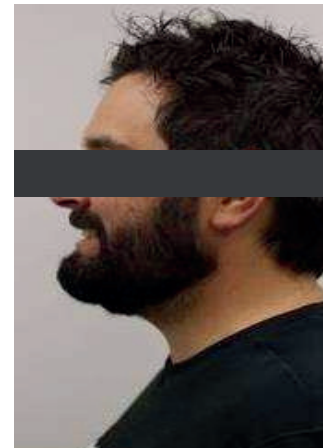
Maximum Smile



Retracted Lips



Profile



Profile Smiling