

# Photogrammetry



## Overview

Dental photogrammetry is the process of taking multiple high-resolution photos of a patient's mouth from different angles. These photos are then uploaded into specialized software that stitches the images together. This creates an extremely accurate 3D model of the teeth and surrounding tissues, and a 3D, rotatable facial image.

The goal of the **Photogrammetry** workflow is to capture records for a Printed Try-In.

### PREREQUISITES

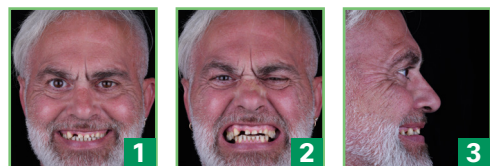
- ☐ Patient must have existing denture or prosthesis

### TECHNOLOGY & MATERIALS

- ☐ Photogrammetry system
- ☐ Photogrammetry scan bodies
- ☐ Intraoral scanner
- ☐ PVS wash reline material of choice
- ☐ *If patient has a denture:* Healing caps approved for IOS scanning

### PHOTOGRAPHS

- ☐ Full-face full-smile
- ☐ Full-face exaggerated smile
- ☐ *Optional:* Full-face profile smile



## QUICK REFERENCE

Patient comfort level	★★★★★
Technology cost	\$\$\$\$\$
Patient appt's to final	3-4
Workflow simplicity	★★★★★
Allocation of effort (Dr - Staff - Lab)	5% - 35% - 60%
Overall cost (Lab + Parts + Chairside)	\$\$\$\$\$

## Photogrammetry Workflow

1. Take the following photos with the patient standing up:

- Full-face full-smile
- Full-face exaggerated smile
- *Optional:* Full-face profile smile



2. Remove the patient's denture/prosthesis. Seat the photogrammetry scan bodies passively onto each MUA.



3. Perform the photogrammetry scan.



**Important:** Steps 4-7 are for **dentures only**.

If your patient has a loaded prosthesis, not a denture, go directly to step 8.

4. Seat approved healing caps onto the MUAs.

**Note:** If you are unsure if your healing collars are approved for use with photogrammetry, visit our website at [www.roedentallab.com/photogrammetry](http://www.roedentallab.com/photogrammetry)



5. Try in the denture and ensure full seat over the healing collars. Adjust the denture as needed to ensure passive seat.



6. Perform a PVS wash (not Blue Mousse) capturing the detail of all of the healing collars, in occlusion. Remove the denture.



7. Capture a 360° extraoral scan of the denture with the IOS.

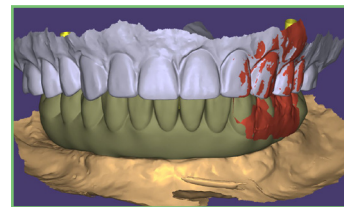


8. Scan the tissue and MUAs with your IOS. Nothing should be seated on the MUAs. A PVS impression is also suitable.



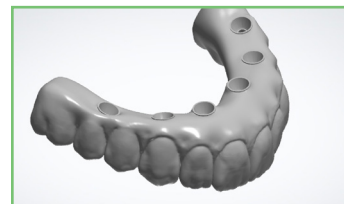
9. Re-seat the denture or prosthesis. Capture the following IOS scans:

- *Denture only:* Teeth and labial flange
- Opposing
- Bite



10. Upload all scans to ROE Dental Laboratory.

Next, ROE will fabricate or provide in-office printing files for the Printed Try-In. The Printed Try-In is a 3D-printed prototype of the final prosthesis. See page 58 for more details.



## Resources

### WEB

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Photogrammetry webpage



Photogrammetry Flyer



### VIDEO

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Workflow & Patient Cases



Scanning Process



Services for Photogrammetry

