



## Getting Started

Digital scanning will reproduce exactly, and in great detail, the impression taken by the practitioner.

If the quality of the original impression is not of an exacting standard, OrthoProof's Flash CT scanners digitization process will reproduce and intensify these errors. Therefore, to produce the best possible digital image quality, the impressions must be taken in a way that eliminates defects, bubbles, folds etc. The impression material can be either 100 hour alginate or PVS.

OrthoProof cleans up the images digitally in order to provide the highest quality image possible. However, if the quality of the impression is inadequate, then OrthoProof takes no responsibility for extensive reconstruction.

## Impression Tray

OrthoProof's Flash CT scanner requires the use of a plastic impression tray. The guidelines to follow for tray selection are:

- \* Adequate number of retention holes
- \* Adhesive if desired
- \* Retention rim
- \* Sufficient rigidity of tray
- \* Sufficient extension into the vestibule

The impression trays must be made of plastic, and the impressions must be of high quality. When taking the impression, warn the patient not to bite on the tray itself.

## Impression Material

### Alginate:

The alginate that is used should retain its shape under any conditions and must not contain any air bubbles. Please consult your laboratory for advice about which alginate to use. Any type of alginate can be used. For best results, OrthoProof recommends alginates with at least 100 hours dimensional stability.

When the impression has been taken and confirmed to be of a sufficient quality, rinse the impression and shake out any excess water, leaving a 1mm layer of water in the occlusal and incisal tips. Seal the impression into a snap-lock bag.

### Suggested Resources:

Kromopan 100  
Alginmax 120

### PVS:

Any make of PVS may also be used as the impression material. All of the above criteria for Alginate also apply to the use of PVS material.



**Bite Material:**

The bite registration is integral to setting up the teeth digitally. The ideal registration will incorporate 3 mm of the buccal / lingual tooth morphology to guide the software tooth setting / registration.

**Wax bite:**

A high-quality wax bite assists in aligning the upper and lower dental models in the DigiModel software. The wax bite should incorporate as many teeth / molars as possible, including the front teeth where possible.

Ensure that the wax is sufficiently softened to prevent deflective closure of the mandible. To minimise the risk of the wax bite deforming when removed from the patient's mouth, ensure that the wax has been sufficiently cooled before removal. Do not over trim the bite as indexing the digital models requires as much detail as possible.

Ask the patient to carefully bite a second time to ensure that the impression has not been distorted.

As long as the final bite is hard, any type of wax bite material can be used.