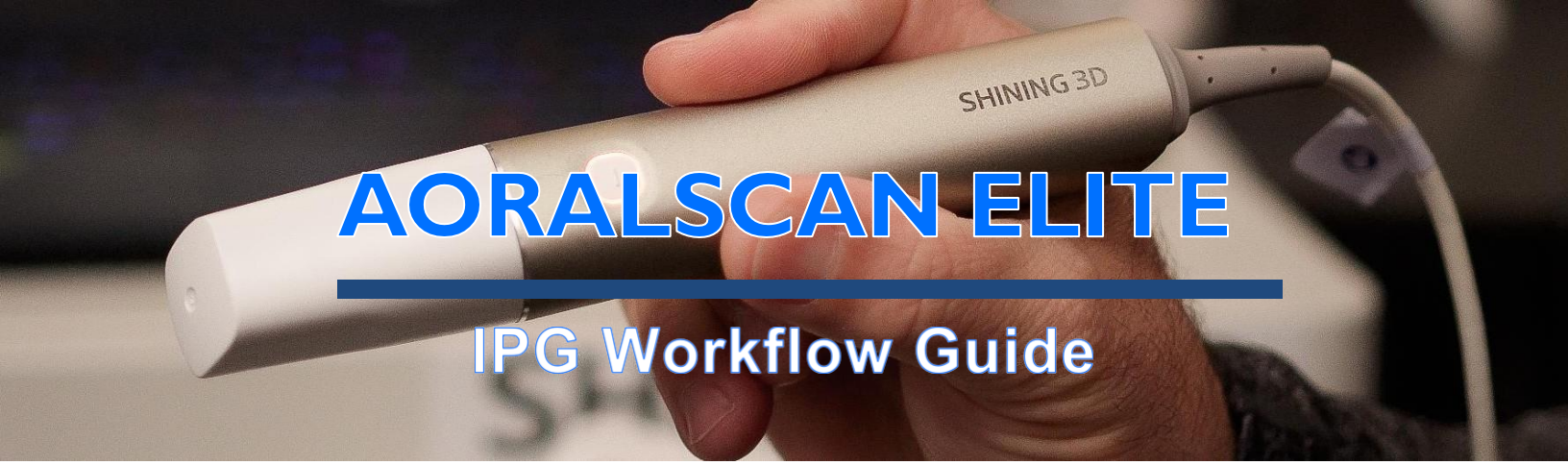


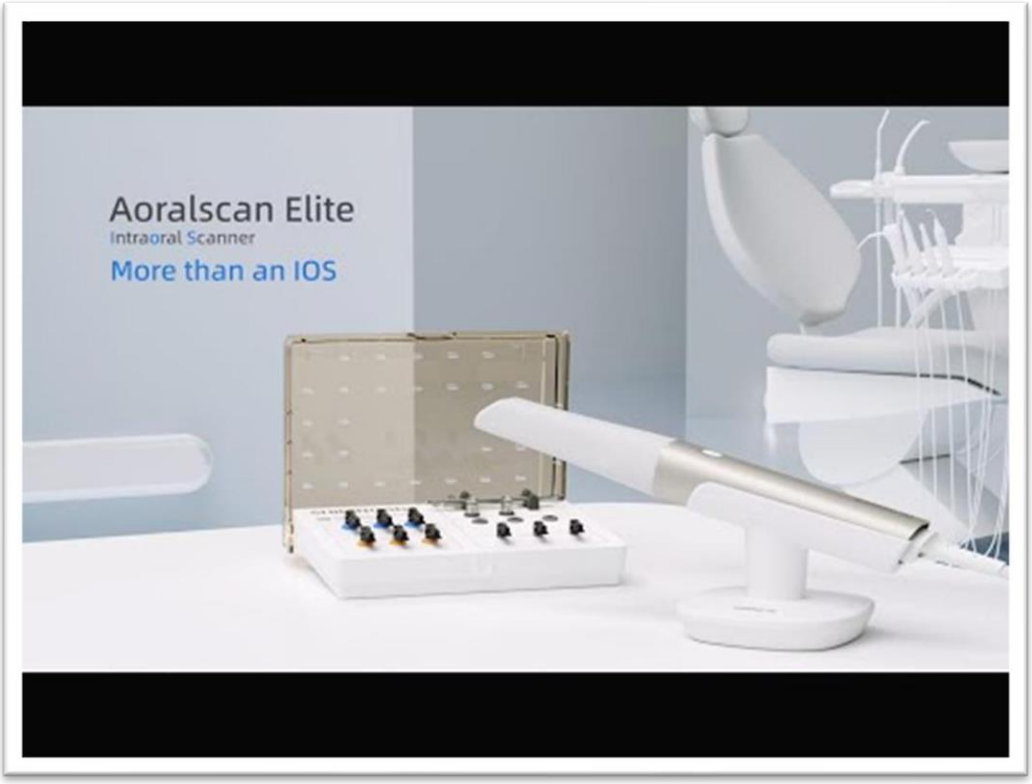
AORALSCAN ELITE

IPG Workflow Guide

AORALSCAN ELITE OVERVIEW

The Aoralscan Elite is the world's first device to integrate both intraoral scanning and photogrammetry into a single unit.

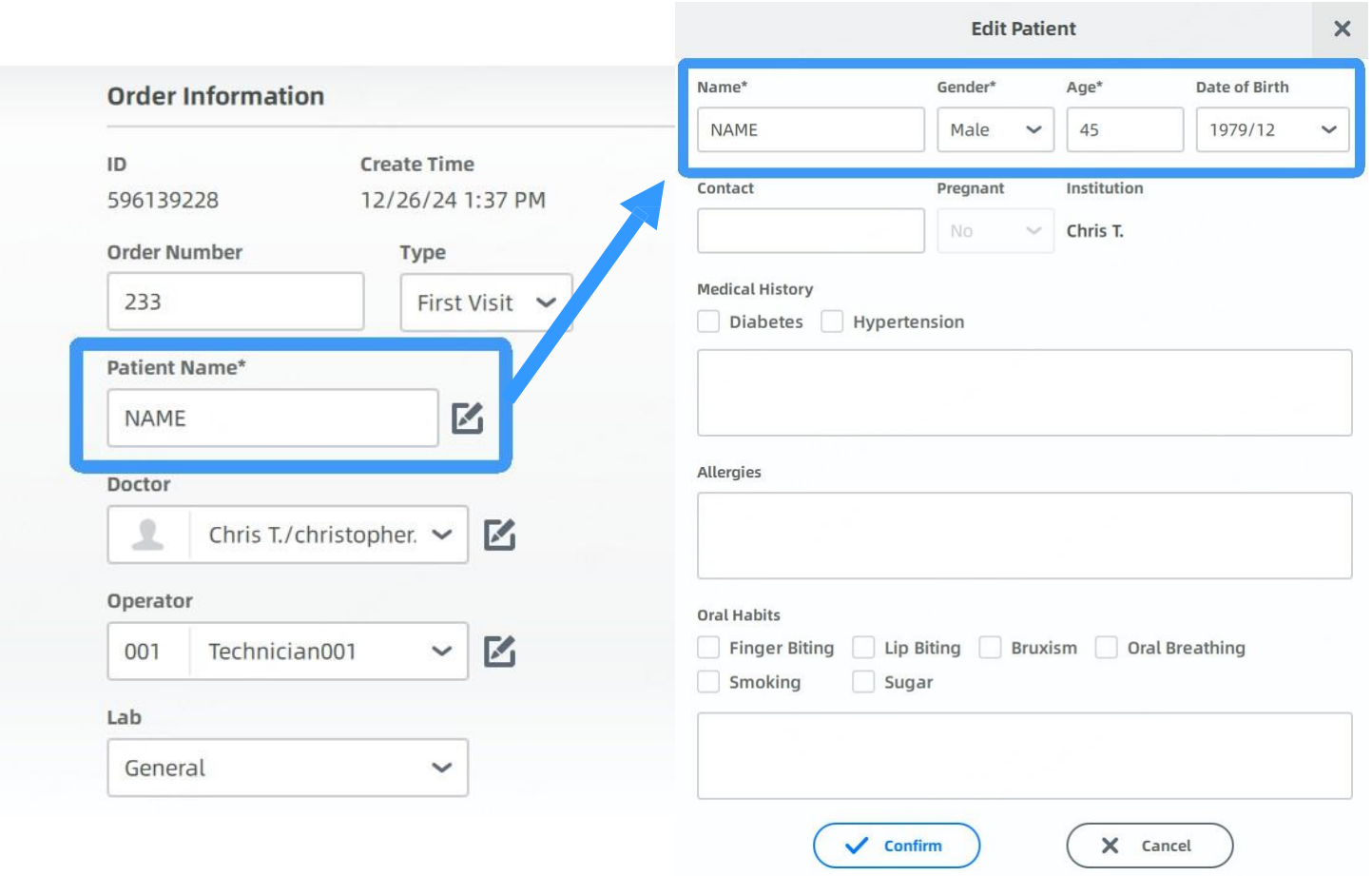
- **Intraoral Scanning (IOS) –** Optimized for smooth and accurate scanning of restorative, orthodontic, denture, and implant cases, the Elite is equipped with many modules and tools to enhance the scanning experience, no matter the case.
- **Intraoral Photogrammetry (IPG) –** A new technology that integrates industrial grade scanning techniques into a compact device, allowing for scanning precision position data of implants in the edentulous patient.



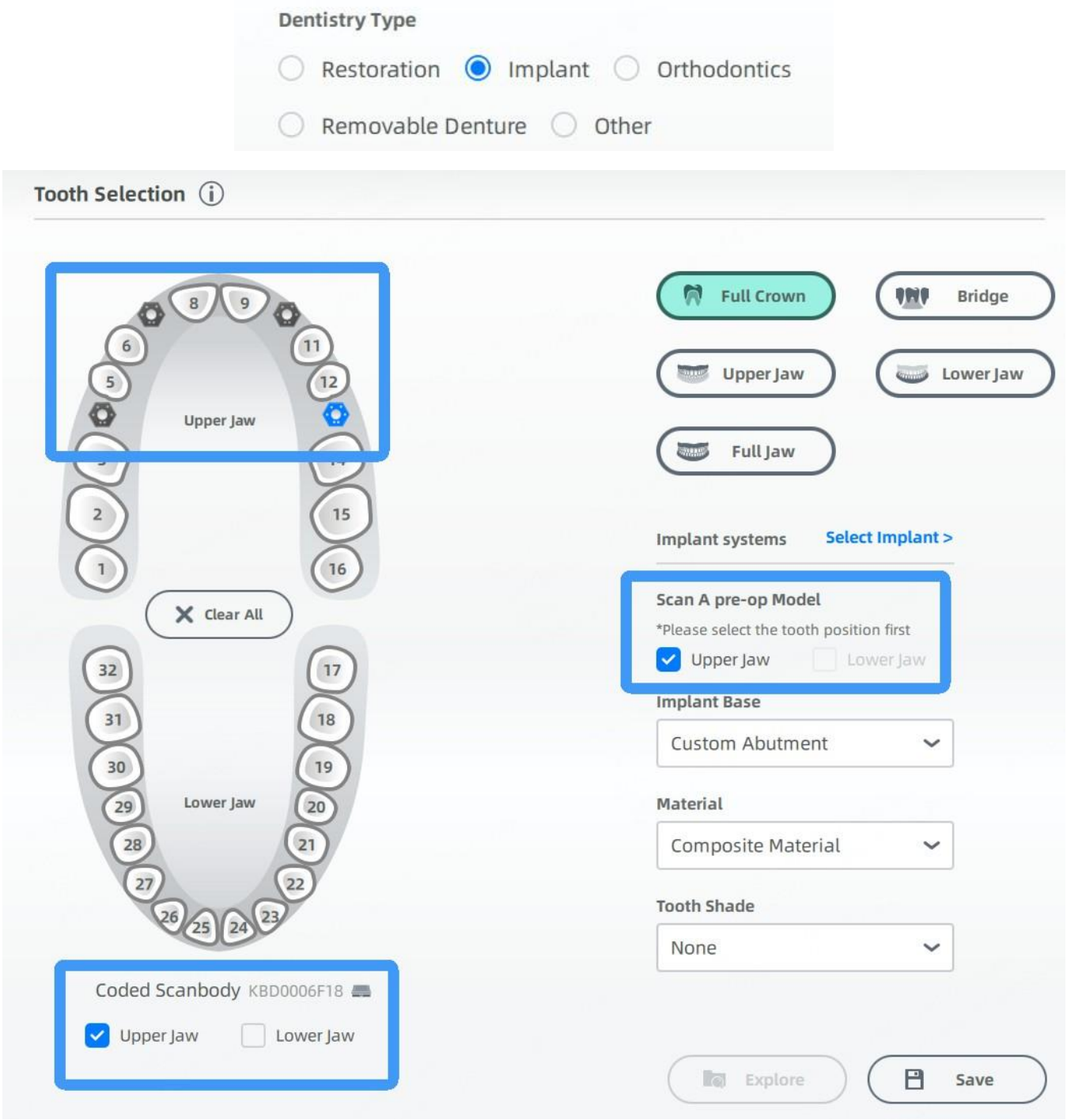
1. ORDER CREATION

When setting up a new order for scanning, there is some required information and considerations to keep in mind:

- Patient Information (Name and Age)
- Dentistry Type (Implant)
- Implant Site Selection
- Coded Scanbody Enable
- Pre-op Enable



Patient Information Entry

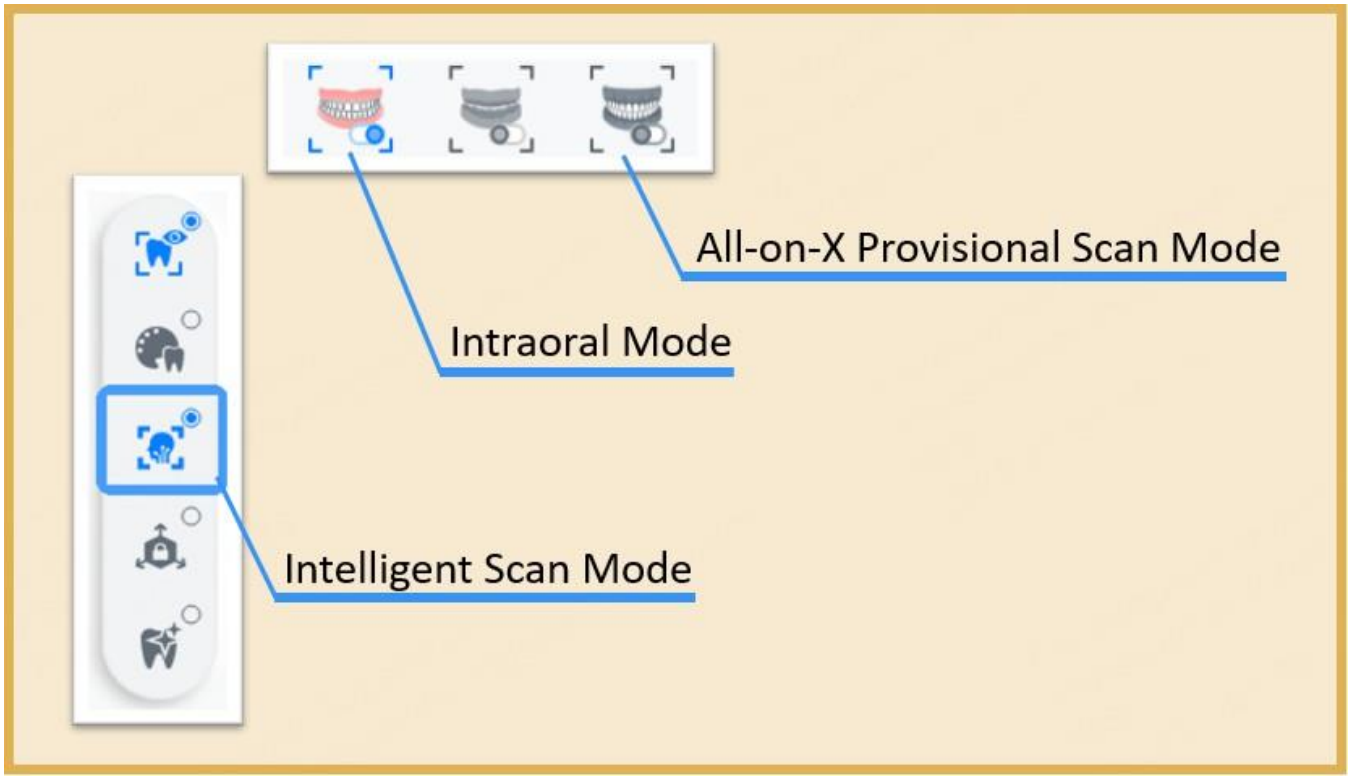


*Implant Site Selection and Enabling **Coded Scanbody** + Pre-op Scan*

2. PRE-OP SCANNING

Prior to surgery, scan the working jaw (either natural teeth or existing denture), antagonist jaw, and bite of the patient:

- **Intraoral Scan Mode –** Enable when scanning in the oral environment, adjusts software settings to better detect dentulous and soft tissue data
- **All-on-X Provisional Scan Mode –** Enable when scanning provisional denture during the pre-op scan
- **Intelligent Scan –** Enable when scanning intraorally to automatically remove extraneous data, such as tongue, cheek, and glove
- **Reference Data –** Scan gingival data below the prosthesis or existing teeth in order to help the software match the pre-op scan with the soft tissue scan later on



Options to Toggle During Scanning

3. SOFT TISSUE SCANNING

Post-operation and installation of the Multi-Unit Abutments (MUA), scanning will be done on the working jaw, prior to installing the Coded Scanbodies:

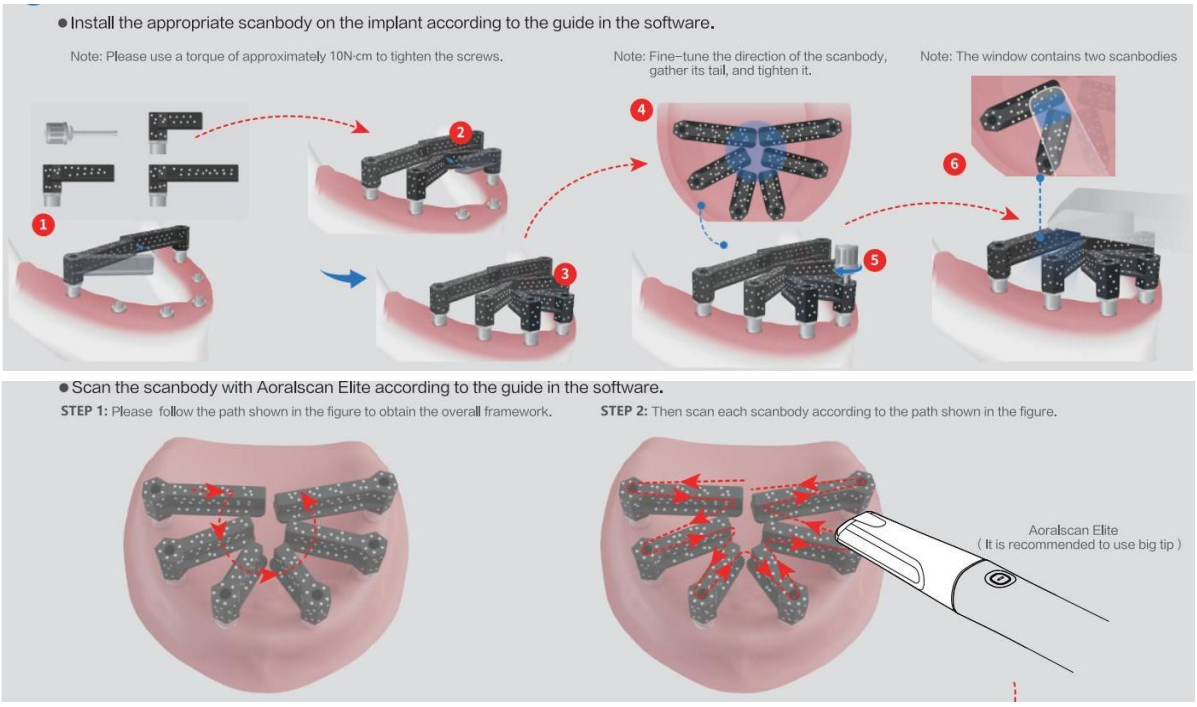
- **Edentulous Scan Mode –** Enable to optimize the software for soft tissue scanning
- **Control Saliva and Bleeding –** Reduce reflective surfaces using suction or gauze for easier scanning
- **Wide Scan Tip –** Use the standard or large size **Scan Tip** for increased Field of View
- **Focus on Soft Tissue –** In both Pre-Op and Soft Tissue Scan, pick up as much soft tissue data as possible for easier alignment
- **Fiducial Marker –** Use a fiducial marker or bone-screw when possible, for easier alignment of soft tissue data (for immediate loading cases with a lot of blood)

Edentulous Scan Mode enabled for Soft Tissue Scanning

4. CODED SCANBODY SCAN

Install the Coded Scanbodies onto the MUA sites and perform the Intraoral Photogrammetry Scan (IPG):

- **Coded Scanbody Placement –** Follow recommended strategy for scanbody installation, ensuring that the Coded Scanbodies are close but not touching (use the Grouping feature if there is not enough space for all scanbodies)
- **Scan Technique –** Follow recommended strategy for scanning the Coded Scanbodies
- **Keep Surface Dry –** Use suction or soft cloth to remove saliva and blood from the top surface of the Coded Scanbodies (reflectiveness inhibits IPG scan)



Installation and Scan Strategy

Installation Guide:

Coded Scanbody Installation - High Accuracy Coded Scan-Kit

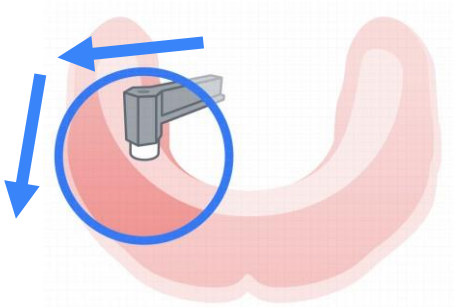
Sterilization Guide:

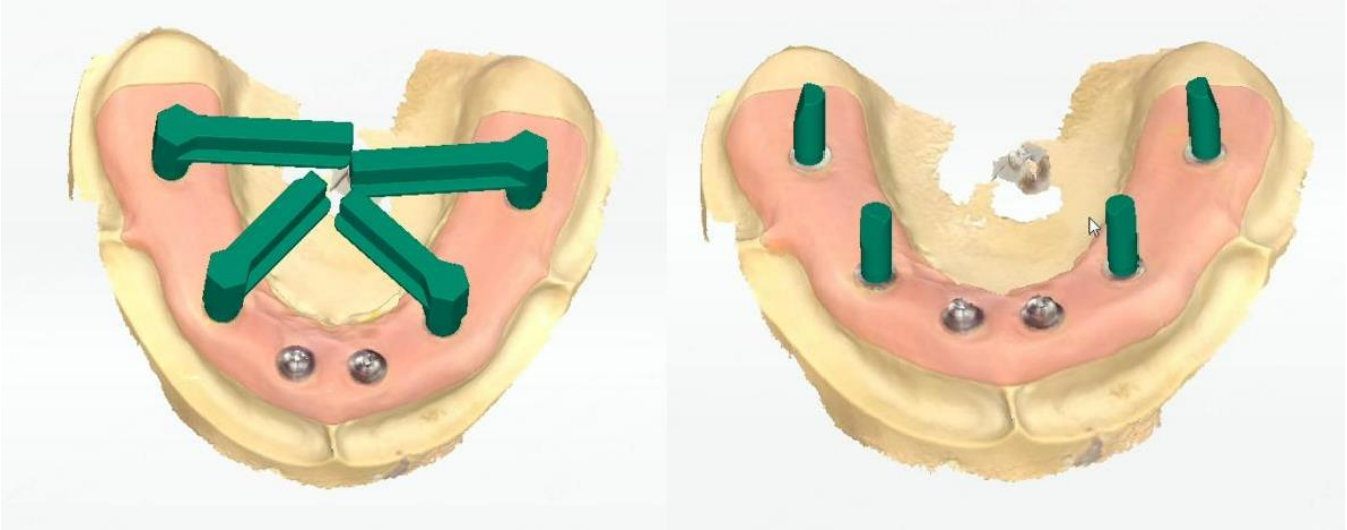
Sterilization Guide - High Accuracy Coded Scan-Kit

5. MATCHING SCAN AND CONVERSION

Perform one last scan to align the intraoral scan of the soft tissue to the IPG scan of the Coded Scanbodies:

- **Two Scans –** Scan the top the Coded Scanbodies on one side of the patient's mouth and move down the side and onto the soft tissue, then pause the scan and do the same on the other side
- **Keep Scanning to Correct Misalignment –** If alignment appears incorrect, continue to scan data and the software will autocorrect the alignment
- **Convert Coded Scanbodies to Digital Scanbody Library –** Select the desired implant system from the software's library or import custom libraries that the lab will use for design



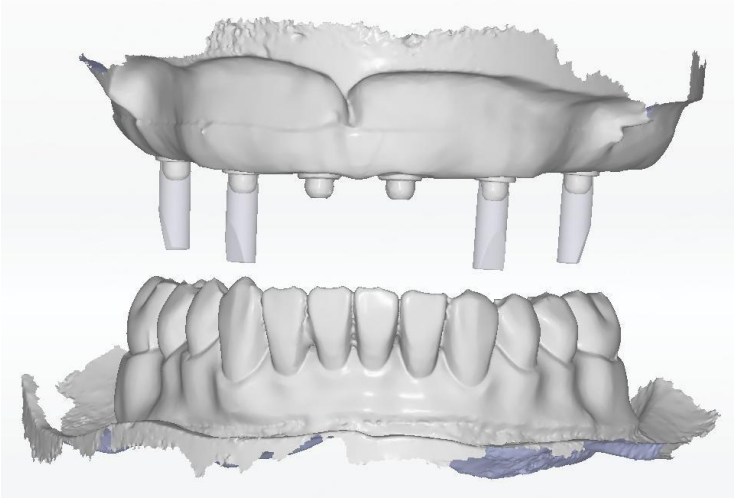


Coded Scanbodies can be Converted to Digital Scanbodies

6. PRE-DESIGN AND SEND FILES

Ensure that all scan steps are completed, indicated by green check marks, and review the scan data in the Pre-Design:

- **Editing Tools –** Trim data and fill holes using the editing tools on the right side of the screen
- **Opacity Sliders –** Toggle on and off and adjust the opacity of the different scans for inspection
- **Texture Toggle –** Toggle on and off the color to inspect the geometry of the scan data
- **Export or Send –** In the Send menu, you can export the scan data directly (as STL, OBJ, or PLY) or send to your designer/lab via the Dental 3D Cloud



Inspecting Scan Data While the Patient is Still Available can Prevent Revisits