

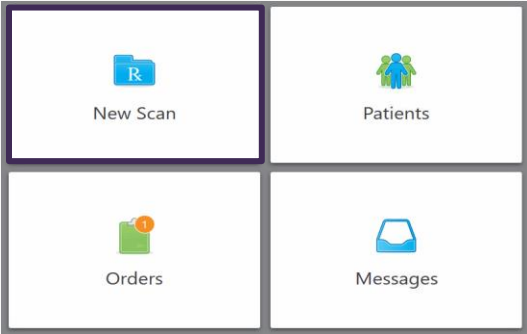
Denture workflow with iTero Lumina™ scanner

The iTero Lumina intraoral scanner’s Multi-Direct Capture™ technology, with its wider field of view¹, large capture distance² and multi-angle capture³, is designed to simplify capture of challenging areas like the palate, edentulous spaces, partially erupted teeth and crowded teeth.

Follow the steps below to complete a denture workflow.

01 Select New Scan

Tap **New Scan** to start.



02 Complete the Rx

1 Fill in the patient’s name, date of birth, and chart number.

A screenshot of a 'Patient:' form. At the top right are a pencil icon and a 'Clear' button. The form contains four input fields: 'First Name:' with the text 'Test', 'Last Name:' with the text 'Test', 'Date of Birth:', and 'Chart Number:'. Below the 'Date of Birth:' field is a 'Gender:' section with radio buttons for 'Male' and 'Female', where 'Female' is selected.

2 Select **Denture/removable** in the procedure field drop-down.
Then, select the type of denture, partnered lab or MyiTero.com account for fabrication.

A screenshot of an 'Order:' form. It contains two main sections. The left section has a 'Procedure *' dropdown menu with 'Denture/Removable' selected, a 'Due Date:' field with '04/07/2024' and a calendar icon. The right section has a 'Type *' dropdown menu with 'Full Denture Tissue Based' selected, and a 'Send to' dropdown menu with 'exocad Chairside' selected.

1.) The iTero Lumina™ intraoral scanner offers 3x larger field of view designed for more surface area capture enabling faster scanning.*Compared to the field of view of the iTero Element™ 5D imaging system, when the iTero Lumina™ intraoral scanner’s scanning distance is 12 mm.
2.) The iTero Lumina™ intraoral scanner boasts a 25 mm capture distance.
3.) The iTero Lumina™ intraoral scanner offers simultaneous multi-angle capture designed for less maneuvering.
Data on file at Align Technology, as of November 15, 2023.

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02 Complete the Rx - cont.

- 3 Fill in the denture details: treatment stage, mould, shade system, teeth shade, gingival color. Also toggle upper or lower denture depending on the need.

Denture Details:

Stage	Shade System
Finish Final	VITA Lumin
Mould:	Teeth Shade
Square	A2
Upper Denture ☒	Gingival
Lower Denture ☐	Light Reddish Pink

- 4 Toggle **Denture Copy Scan**, if relevant.

Scan Options:

NIRI Capture: ☐

Denture Copy Scan: ☒

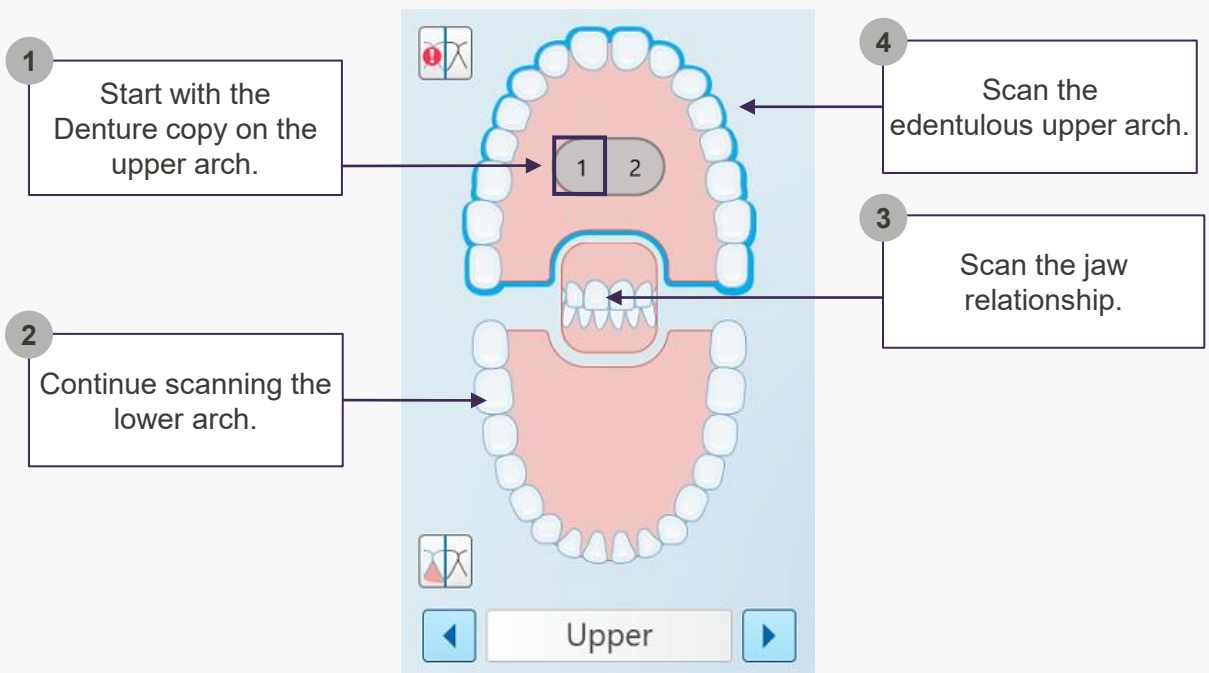
- 5 Upload the attachments from MyiTero.com, if needed.
Add any additional notes relevant to your lab.

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03 Scan mode

Tap the **Wand** icon  in the upper part of the screen to move to the scan mode.

Scan the patient following the steps below. Tap each segment/jaw to move between the stages.



Make sure to maintain moisture control before and during the scan.

- Select the **Enable Appliance Scan** option to scan appliances outside the mouth. This feature can be used to scan dentures, facebows, jigs, or even impression materials.
- This feature may capture unintended elements. Ensure that items such as gloves, medical instruments, or other non-essential objects are not accidentally included in the scan.

* Watch scanning with iTero Lumina™ scanner video to learn more about scanning the arches and the bite.

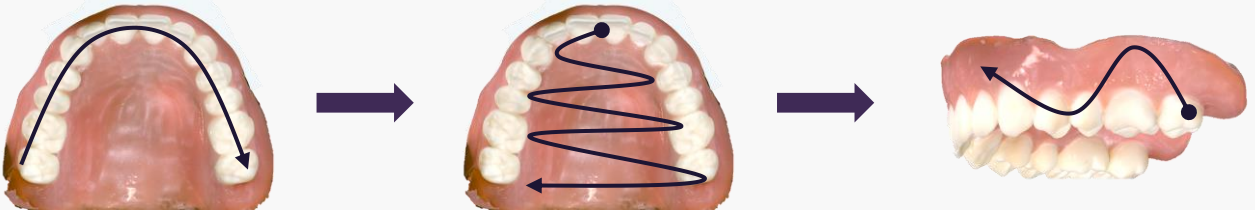
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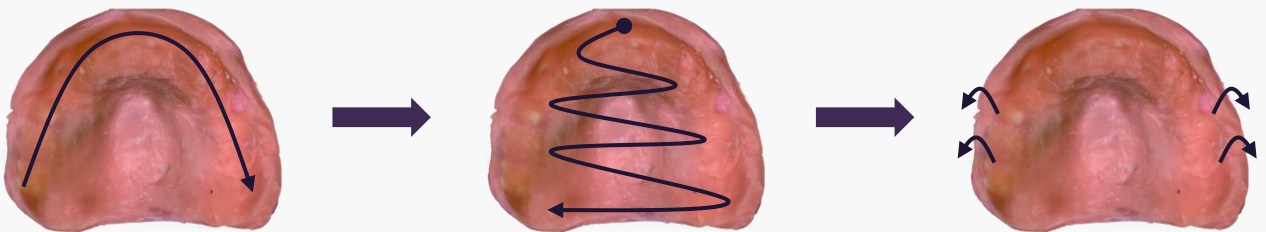
Scanning guidance for the best clinical outcome

Denture scanning recommendations:

- Scan the denture in 360 degrees outside of the mouth.
- Clean the denture.
- Begin the scan with the cameo surface of a denture: scan the occlusal surface. Position the wand on the incisal lingual surface, scan the palate in a wave motion, then cover the buccal surfaces.
- Turn the wand off.



- Turn the wand on to scan the intaglio.
- Capture all the areas. Scan the occlusal and palate area. To merge the scans together roll from the intaglio to the buccal in one motion. This ensures a fully integrated denture scan with accurate stitching.



- Seat the dentures in the patient's mouth, scan the bite and check all anatomical parts are captured.

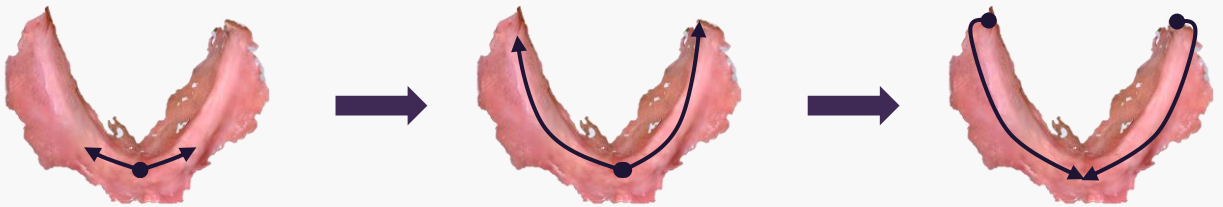
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Edentulous scan tips:

- The iTero Lumina's large field of view simplifies soft tissue scanning. Dry the area to be scanned of excess of fluids and keep the scanner lens clean.
- Use a retractor when necessary to stabilize soft tissue and improve scan quality.

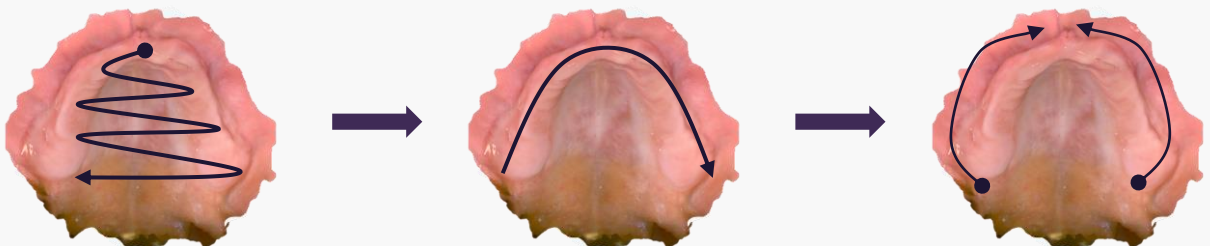
Lower arch:

- Start from the anterior ridge to establish natural reference points.
- Position the wand on the midline, capturing key features such as the lingual frenum.
- Scan the ridges completely before moving to the vestibular areas.
- For vestibular scanning, begin in the posterior region and move steadily toward the midline.



Upper arch:

- Begin with the incisive papilla, then scan the palate and alveolar ridge in a smooth, steady motion.
- After completing the ridges, proceed to vestibular scanning, starting posteriorly and moving toward the midline.



Use the additional scan feedback mode to highlight the areas that need additional scanning, especially for the full palate and vibrating line areas.

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Edentulous scan tips:

Jaw relationship:

- Use provisionals, an existing denture, or another appliance to establish the bite.
- If no suitable appliance is available, use a putty matrix as an occlusal jig. The putty should be shaped intraorally to establish the intended vertical dimension and maxillomandibular relationship. The scan should be performed following the same occlusal registration guidelines.
- Ensure comprehensive capture of all relevant soft-tissue landmarks, including the edentulous ridges, vestibular areas, and supporting mucosa, to enable accurate occlusal registration and reliable prosthetic fit.
- Clinical reference markings may be added directly to the putty matrix (e.g., midline, smile line, lip support reference) to preserve esthetic and functional orientation.
- When such markings are used, the putty matrix can be scanned extraorally as an additional scan under **Appliance Scan**, providing clear visualization of the reference lines while maintaining alignment with the intraoral scans.

Before moving to the View mode:



Use the **Delete segment tool** to delete the whole arch or bite segment to rescan.



Trim tool can also be used for the same purposes.



Make sure you reviewed the model in color and monochrome modes to ensure that all the relevant surfaces were captured.

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Use the **Prep editor** to adjust a prep or remove specific areas and rescan, use the following steps to rescan:

- 1 Tap the **Prep editor** icon  above the viewfinder.
- 2 Tap Select  and circle the area to be removed and rescanned.
- 3 Make sure all the surfaces are clean, dry and rescan the area. If rescanning a prep tooth, make sure the margin line is exposed and full captured.

04 View mode

Tap the **View** icon  in the upper part of the screen to move to the view mode.

Review the model and make sure all the relevant anatomy has been captured.

05 Send mode



Send the completed scan to the lab.