



## Protocol for iTero™

fusion treatment is powered by suresmile technology to provide 3D models and fully-customized wires based on your scans of the patient.



IOC



HD2.9



Element™

**For more information on suressmile fusion**

Visit [suressmile.com](https://suressmile.com)  
and select **fusion** in the header.

## Capture two scans per patient:

- **Initial 3D scan** – this scan may be captured by any system that can provide STL files for uploading your case to the doctor portal. Follow the instructions for starting a case to upload this data.
- **Scan after bonding** – this scan must be captured with a suresmile-certified scanner such as the iTero™. This document includes the steps for capturing acceptable data and guidelines for scanning patients who are bonded.

**NOTE:** Do not perform the scan with brackets until both IDB and any sequential bonding are complete.



# Getting Started

## Choose the Orthodontic System



iTero® Orthodontic Digital Ecosystem from Align Technology, Inc. that are certified for scans taken after bonding:

- iTero® IOC scanner
- iTero® HD2.9 scanner
- iTero® Element™ scanner

**WARNING:** suresmile does NOT support the iTero Restorative system for dentists



# Capture Data for fusion

## Start the Patient's iTero Record

1. Create or open the patient's record on the iTero scanner.
2. For the Case Type, select iRecord.

**WARNING:** The iRecord case type is provided for model storage. You may be charged a storage fee depending on your service terms. To find out more, contact Align Technology, Inc. customer support at [iterosupport@aligntech.com](mailto:iterosupport@aligntech.com).

If you accidentally order your scan using another case type, you may be charged an Invisalign case fee. Contact Align Technology, Inc. customer support immediately to correct the type.

An Invisalign scan can only be used for an Invisalign case; if you choose the wrong case type, the patient will need to be re-scanned.

Order Information			
Order ID:	<input type="text" value="5079476"/>	First Name:	<input type="text" value="Monica"/> *
Order Code:	<input type="text" value="5GGM2Z"/>	Last Name:	<input type="text" value="Schafer"/> *
Case Type:	<input type="text" value="iRecord"/> 	Chart Number:	<input type="text"/>
Registration Date:	<input type="text" value="2011/11/16"/>	Acquisition Date:	<input type="text" value="2011/11/16"/>
State:	<input type="text" value="Completed"/>		

3. Proceed to the scanning windows and tools

## Prepare the Patient

1. Remove the patient's wires in the arches to be scanned. If they are suresmile archwires, keep track of their orientation to help you reinsert them correctly at the end of the appointment.
2. Remove calculus and any other material that will misrepresent the true shape of the teeth.
3. If the patient has turbos, the guideline is the same whether they consist of metal or composite material— if the turbos are scheduled to be removed at this appointment, remove them before the scan.
4. Close the bracket doors of the self-ligating brackets before scanning.



**WARNING:** This step is critical since the fusion system cannot process the scan data if the bracket doors are open.

## Opaque Brackets

Before you begin scanning, you must apply an opaque material to brackets.

Use a material such as SureWhite (available from suresmile Customer Care) that can provide a thin coating for the bracket without obscuring its detail.

## Take the Scan/Send Order

1. Capture the upper, lower and bite.
2. Fill in any voids to capture:
  - 100% of tooth surfaces
  - 100% of bracket face
  - 70% (or more) of bracket mesial and distal profiles
3. Complete the order to send the data to MyAligntech.com.
4. Reinsert the archwires and complete the patient appointment.

**NOTE:** If you are taking an extra scan to capture brackets that have been repositioned or rebonded, you may bypass steps in the scanner software to skip to the areas needed. When you scan the section, be sure to include the teeth with bracket changes and several adjacent teeth to assist in merging the data with the previous model.

## Export your Scan Data from MyAligntech.com

You may export the patient's data during the appointment, or wait until later to process several cases at once

Click "Export", which requires OrthoCAD 3.5 or higher, to begin the export process.

**Order Information** Save Cancel

Order ID: 7007403 First Name: A Company: QACompany - Orthodontic  
 Order Code: 7K6T8F Last Name: Demo Doctor: Dr. QA Exclusively, QAPerso  
 Case Type: iRecord Chart Number: Model01 Doctor License: 111  
 Registration Date: 2011/08/14 Acquisition Date: 2011/08/14 Tracking Number:  
 State: Completed Order Status: Active

Notes:

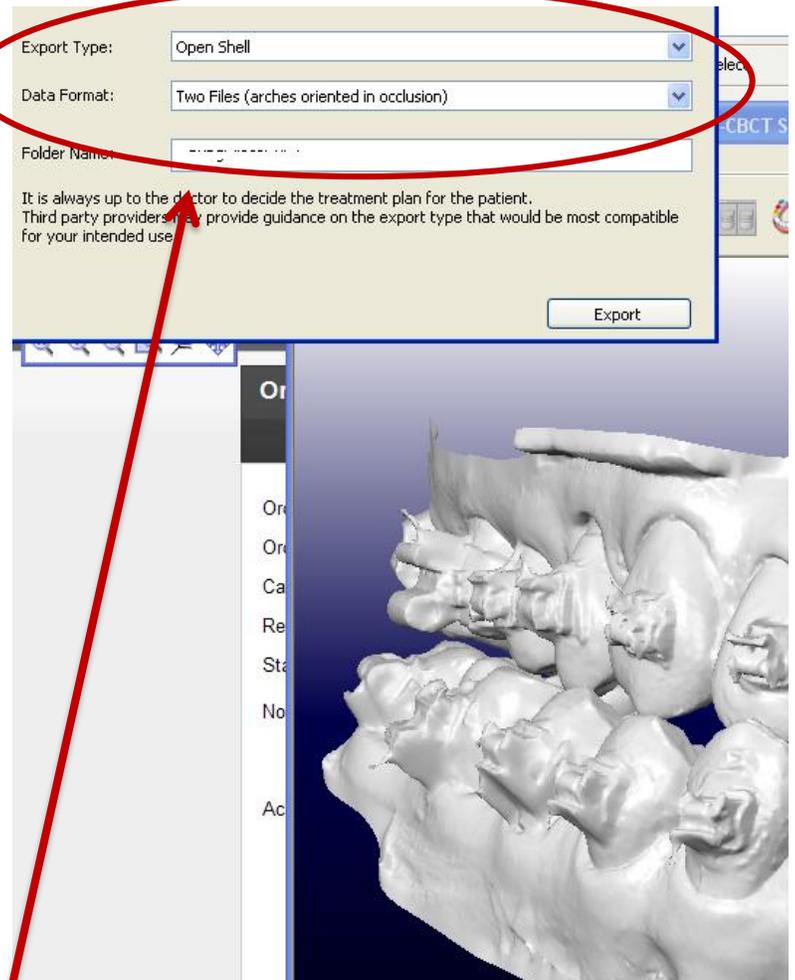
Actions: [Open File](#) [Export \(OrthoCAD 3.5 or higher\)](#) [Change Order](#) [Image Management](#)

Order Details ID	Item	Quantity	Ship To	Bill To	Due Date	Shipping Date	Delivery Date	Status
7007404	iCast	1.00	QACompany - Orthodontic Office - iOC		2011/08/18	2011/08/17		Completed

1. Go to the computer where you can access MyAligntech.com and suresmile.
2. Logon to your myaligntech account.
3. On the individual patient "Order Information" page, click **Export**.

#### 4. Select these settings:

- Export Type: **Open Shell**
- Data Format: **Two Files (arches oriented in occlusion)**  
(arches oriented in occlusion)
- Folder: Enter the folder name you have created for this purpose and save the data with the patient's name.



**WARNING:** Be careful to choose the correct data format of “Two Files (arches oriented in occlusion).” Otherwise, your model will be rejected by the Digital Lab

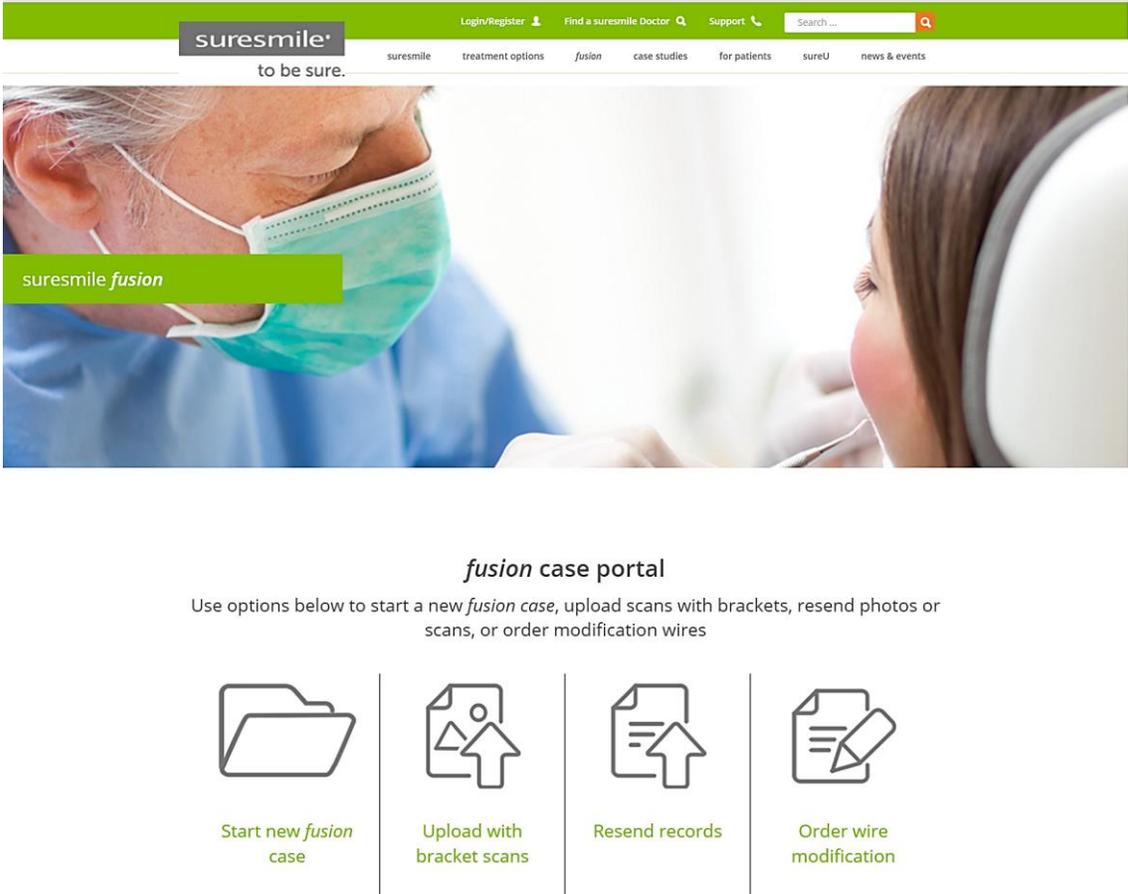
5. You may repeat these steps for any other patients with data waiting to be exported.
6. Close MyAligntech.com and OrthoCAD when you are finished exporting scans.

## Upload your Scan Data to the fusion Case Portal

Finally, go to the fusion case portal and upload the patient's records.

**NOTE:** If you are capturing this scan after completing sequential bonding, remember to take progress photos at the same appointment. In preparation for uploading, combine the photos into a .ZIP file.

1. Go to the fusion case portal by visiting [suresmile.com](https://suresmile.com) and selecting **fusion** in the header.
2. Select the **case portal** option (between “how it works” and “support”).
3. Select **Upload with bracket scans**.
4. Follow the instructions for uploading your scan with brackets.



The screenshot shows the suresmile.com website. The header includes the suresmile logo, navigation links for Login/Register, Find a suresmile Doctor, Support, and a search bar. Below the header, the 'fusion' link is highlighted in the navigation menu. The main content area features a large image of a dentist wearing a mask and a patient. Below the image, the text 'suresmile fusion' is displayed. Underneath, the 'fusion case portal' section is titled, followed by the instruction: 'Use options below to start a new fusion case, upload scans with brackets, resend photos or scans, or order modification wires'. Four icons are presented in a row, each with a corresponding label: a folder icon for 'Start new fusion case', an icon of a document with an upward arrow for 'Upload with bracket scans', an icon of a document with a list and an upward arrow for 'Resend records', and an icon of a document with a pencil for 'Order wire modification'.

## Scan Procedure – IOC & HD2.9

When you scan a patient who is bonded, follow these guidelines to:

- Capture accurate and complete modeling data, including bracket features
- Follow the most efficient steps

Like your Invisalign® orders, suresmile requires 100% tooth coverage in scans. To produce custom archwires, suresmile also requires adequate data to register brackets precisely:

- 100% of bracket faces
- 70% (or more) of bracket mesial and distal profiles
- 2mm of gingiva



Remember, the IOC and HD2.9 scanners offers a maximum of 8 segments per upper/lower scan. In other words, there are 4 segments per arch (labial right, lingual right, labial left, lingual left).

**WARNING:** Do NOT complete a segment without capturing all required anatomy; including interproximal areas and bracket face/wings, since the iRecord case type causes the system to fill in holes upon completion of a segment. You will typically need all pictures for maximum accuracy with suresmile.

## Scanning Bonded Patients

If the patient is bonded, add the best practices on the following pages to your procedure to adequately capture teeth with brackets.

Depending on user preference, you can begin scan on either upper or lower arch and on right or left side.

## Keep Areas Dry

Part of capturing a high quality scan, it is important to keep areas being scanned completely dry. Saliva and bubbles can distort the surface captured by the scanner. Be sure to have extra cotton rolls or gauze in addition to having a constant suction at hand.

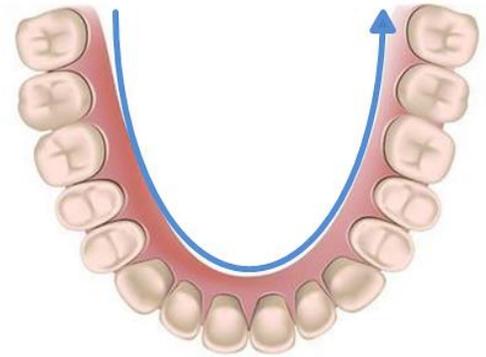
## Opaque Brackets

Before you begin scanning, you must apply an opaque material to brackets.

Use a material such as SureWhite (available from suresmile Customer Care) that can provide a thin coating for the bracket without obscuring its detail.

## Capture the Lingual Segment of an Arch

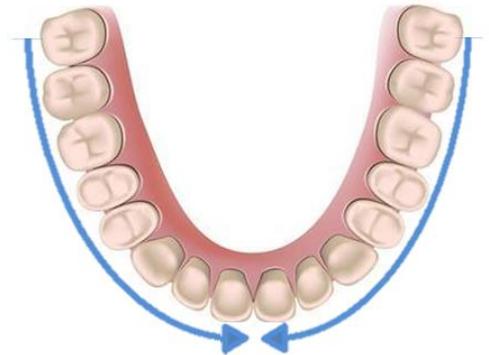
- Scan the lingual segment first since the side that is bonded is the most critical view for modeling. (Or, if the lower arch is bonded labially, scan the buccal segment first.)



- After starting with your occlusal picture of the last molar, hold the wand over the buccal cusps of the molars for an occlusal/buccal view of the posterior teeth. It is necessary to capture some of the occlusal view in the buccal segment to help the system merge with the lingual segment later.
- Continue scanning along the segment working your way mesially until you cross the midline.
- Since the brackets will block your view and leave holes, position the wand perpendicular to the buccal view and take additional pictures to fill in the holes.
- Follow the manufacturer's recommendations for rocking mesially and distally to capture interproximal areas. This method is recommended to help avoid shadowing (which will become holes in the data). See your iTero tutorials for a demonstration.

## Capture the Buccal Segment of an Arch

- If you still have holes after you have used up your lingual pictures, you can try to compensate as you scan the buccal view.
- Hold the wand at an angle to capture both buccal and occlusal views. Remember to continue using the rocking pattern, if needed, to capture interproximal areas.



## Capture the Lower Anterior

As recommended in the iTero tutorials, scan across the facial surface of the lower anterior (holding the wand sideways) also capturing incisal edges.



## Capture the Upper Anterior

- As recommended in the iTero tutorials, scan across the facial surface of the upper anterior (holding the wand sideways) also capturing incisal edges.
- However, for the lingual surface of the upper anterior, hold the wand vertically while scanning to include incisal edges with lingual views.



## Scan Procedure – Element

When you scan a patient who is bonded, follow these guidelines to:

- Capture accurate and complete modeling data, including bracket features
- Follow the most efficient steps

Like your Invisalign® orders, suresmile requires 100% tooth coverage in scans. To produce custom archwires, suresmile also requires adequate data to register brackets precisely:

- 100% of bracket faces
- 70% (or more) of bracket mesial and distal profiles
- 2mm of gingiva

**WARNING:** Do NOT complete a segment without capturing all required anatomy; including interproximal areas and bracket face/wings, since the iRecord case type causes the system to fill in holes upon completion of a segment. You will typically need all pictures for maximum accuracy with suresmile.



## Scanning Bonded Patients

If the patient is bonded, add the best practices on the following pages to your procedure to adequately capture teeth with brackets.

Depending on user preference, you can begin scan on either upper or lower arch and on right or left side.

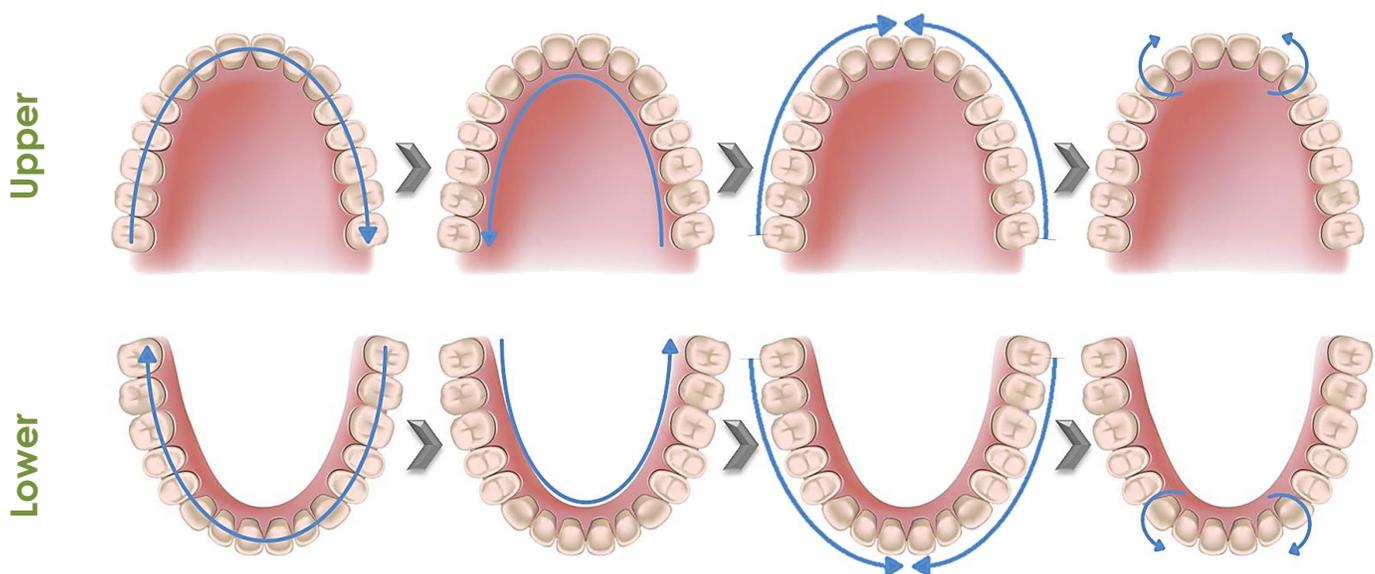
## Keep Areas Dry

Part of capturing a high quality scan, it is important to keep areas being scanned completely dry. Saliva and bubbles can distort the surface captured by the scanner. Be sure to have extra cotton rolls or gauze in addition to having a constant suction at hand.

## Opaque Brackets

Before you begin scanning, you must apply an opaque material to brackets.

Use a material such as SureWhite (available from suresmile Customer Care) that can provide a thin coating for the bracket without obscuring its detail.



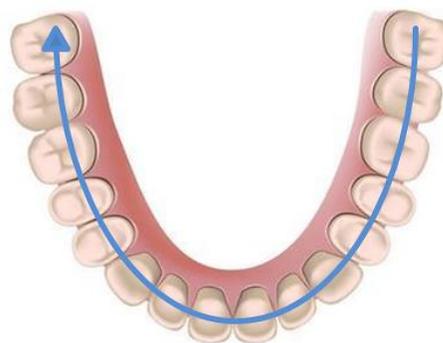
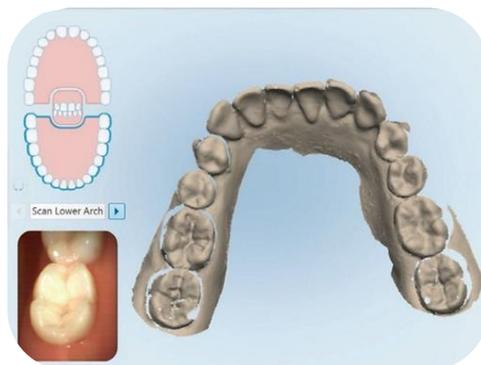
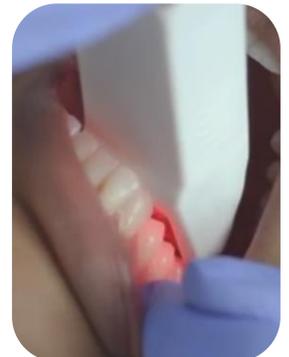
## Brackets Present

While completing the case Rx, it is important to be aware of the recipient being scanned. Do the patient's teeth have brackets bonded or not? If so, it is critical that the Brackets Present field is checked. This will allow the scanner to include all attributes of the bracket in the processed scan



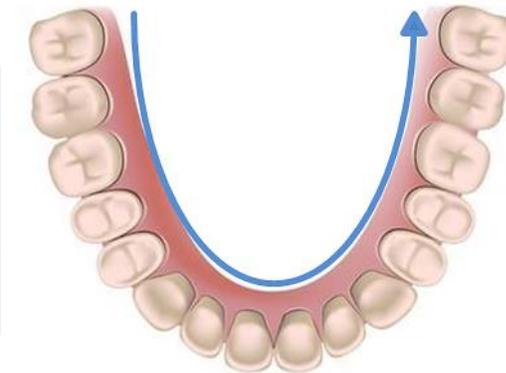
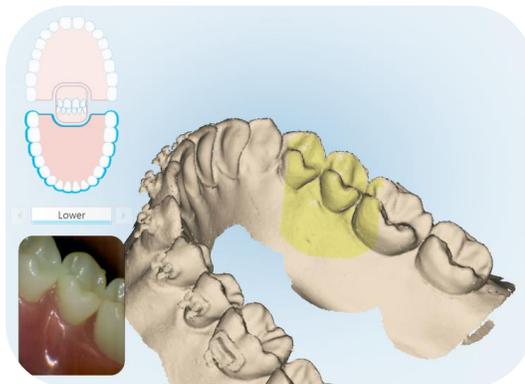
## Capture the Occlusal Segment of an Arch

- To scan the occlusal surface, move in a single continuous motion. Being sure to keep wand flat on the occlusal, steadily bring wand toward anterior.
- When you reach the bicuspid continue by swiping across the anterior, tilting slightly to the lingual at the contralateral bicuspid and then proceed by moving the tip straight back to the contralateral terminal tooth. This will allow for capture of continuous segments of anatomy.



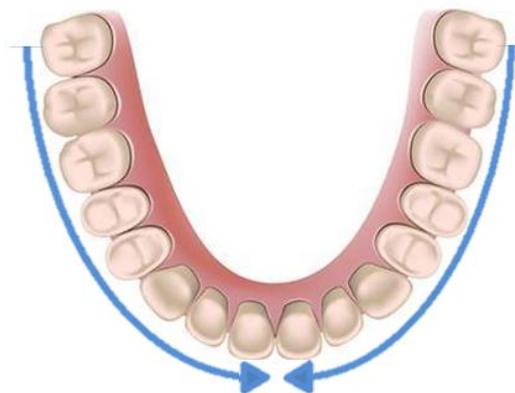
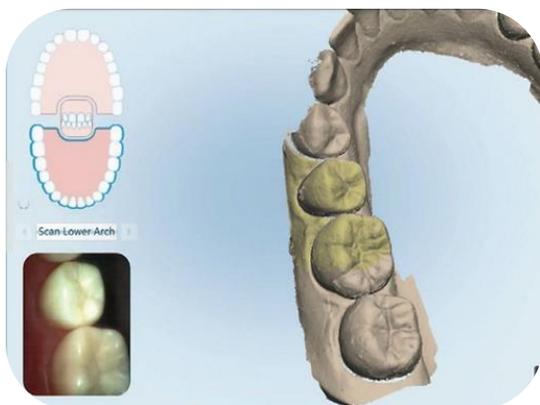
## Capture the Lingual Segment of an Arch

- If the patient is in lingual treatment, remember the side that is bonded is the most critical view for modeling.
- Once you reach the most terminal molar, rotate to lingual.
- Bring cable end out to side and maintain a 45° angle of wand tip to lingual surface.
- Using twisting motion, continue around entire arch being sure to capture the interproximal anatomy of the entire lingual surface.
- Holding the wand tip against the tooth will help to retract the tongue.



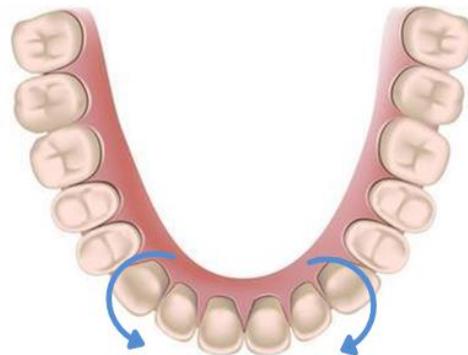
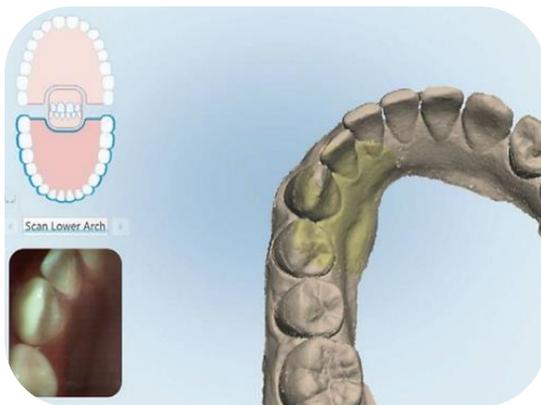
## Capture the Buccal Segment of an Arch

- After scanning of lingual is complete, rotate to buccal surface. Tilt wand at larger angle (bringing cable end away from arch) and move towards midline to capture distal of tooth/bracket and interproximal anatomy of the buccal.
- Once you cross the midline, move wand tip to opposite terminal tooth and use same technique to capture distal and interproximal anatomy of buccal moving from posterior to anterior. Moving from posterior to anterior when scanning buccal surface reduces interference from cheek and allows for a smoother scanning experience
- Tilting wand tip (bringing cable end closer to the arch) and at a slight diagonal angle will allow better capture of the mesial surface of tooth/bracket and the underside of bracket area.



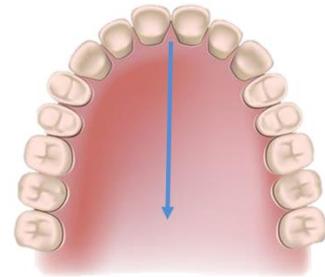
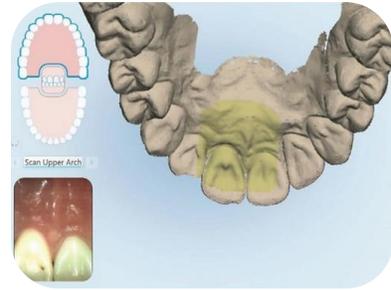
## Capture the Upper/Lower Anterior

- After scanning of buccal is completed, move to anterior to capture incisal surface.
- Place wand so that the lingual of the cuspid and lateral are centered in view finder.
- Roll from lingual surface, over incisal edge to buccal/facial surface.
- Repeat on contralateral side.
- These scan helps to ensure that lingual and buccal segments are joined with the accurate incisal surfaces.



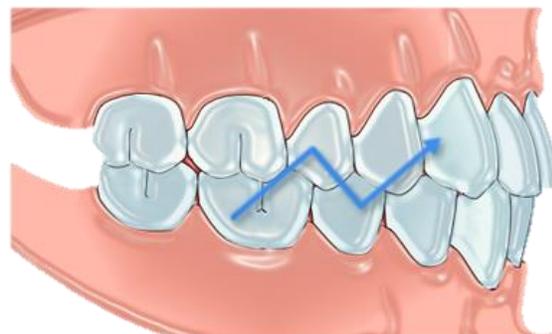
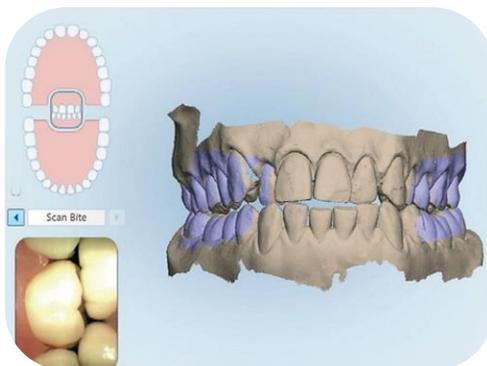
## Capture the Palate

- To scan the palate: Begin at the midline directly behind the central incisors.
- Follow with additional scans until reaching the soft palate.
- Fill remaining palatal surfaces by sliding the wand side to side.



## Capture the Bite

- Have the patient open, use the wand to retract the cheek and have patient close in centric occlusion. Bring wand tip gently against teeth observing the occlusion in the view finder.
- Start with the first molars. Center the wand between the upper and lower arches and slowly move forward in a small wave-like motion, capture 3-4 teeth and then move to the contralateral side using the same technique.
- Once bite has been captured, the upper and lower arches will occlude according to the bite scan.



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## Questions?

Region	Phone Number	Email Address
<b>United States &amp; Canada</b>	1 888 672 6387 or 1 972 728 5902	<a href="mailto:fusion@orametrix.com">fusion@orametrix.com</a>
<b>Europe, Australia, New Zealand</b>	+800 6655 1234  <small>Note: We are currently rolling out this number on a country-by-country basis. If not yet available in your country, you can still call us by using our <b>All other countries</b> toll number below.</small>	Europe <a href="mailto:fusion@orametrix.de">fusion@orametrix.de</a>  Australia, New Zealand <a href="mailto:fusionanz@orametrix.com">fusionanz@orametrix.com</a>
<b>All other countries</b>	+1 972 728 5902	<a href="mailto:fusion@orametrix.com">fusion@orametrix.com</a>