

4.5 Software Upgrade

For iTero 3.5



iTero™



10/23/2012

Overview

• What's New For You?

- Secure Log-In
- Treatment Information (RX) Enhancements
 - Scan Body Applications
 - File Attachments
- User Interface Improvements
 - Real Time Modeling added
 - New Guided Tooth Positioning
 - Additional Foot Pedal Options
 - Changed Exception Messaging
 - Added Eraser and Margin Marking Tools
 - Scanning Straumann and Biomet 3i Scan Bodies added
 - Capability for Invisalign Scanning

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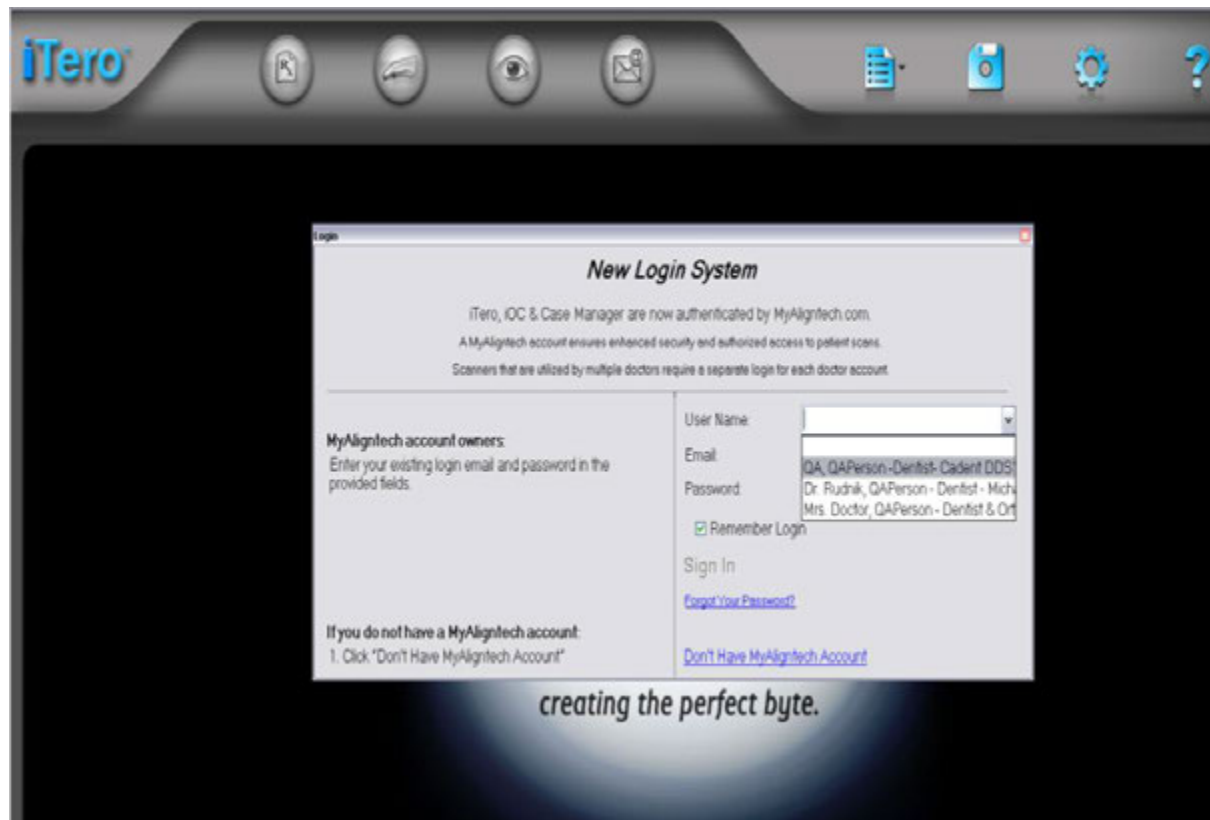
Overview (cont.)

- MyAligntech
 - MyAligntech
 - Accessing MyAligntech
 - Checking Case Status
 - STL Export

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Secure Log-in

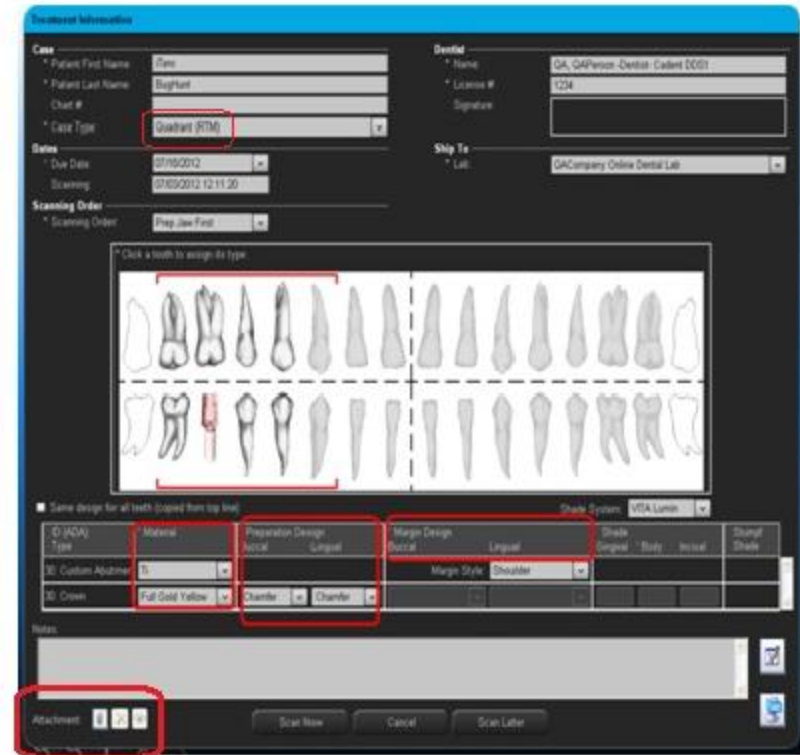
- iTero is now authenticated by MyAligntech.com
 - Provides enhanced security and authorized access to patient scans



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Treatment Information (Rx)

- New Enhancements added to the Treatment Information (Rx)
 - Scan body option
 - Material type for custom abutment
 - File Attachment capabilities
 - “(RTM)” added to ‘Case Type’

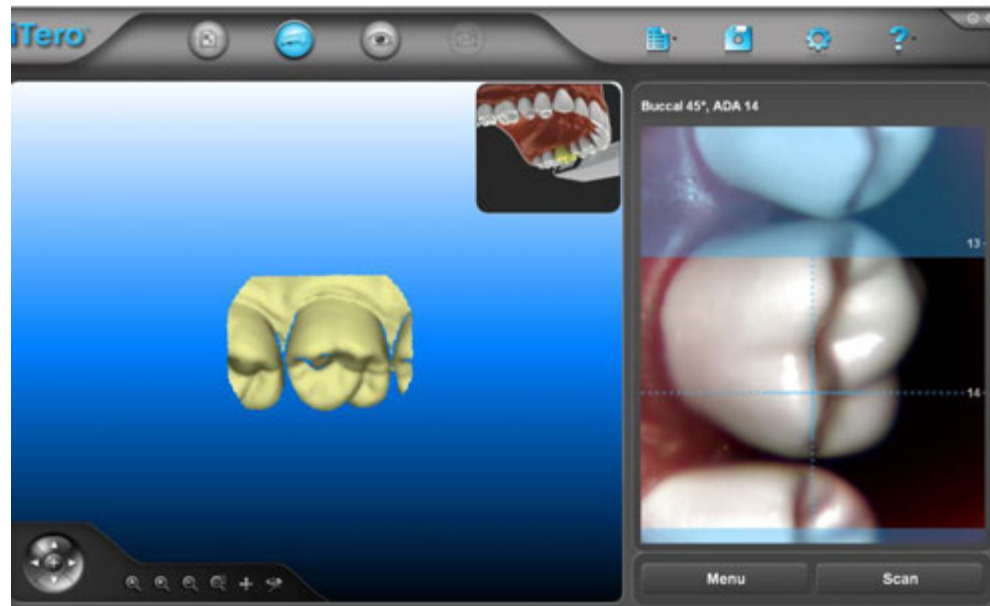


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User Interface

- Designed to


- Enhance visualization of the 3D model
- Provide a more intuitive user interface
- Improve case workflow
- Maximize available screen space

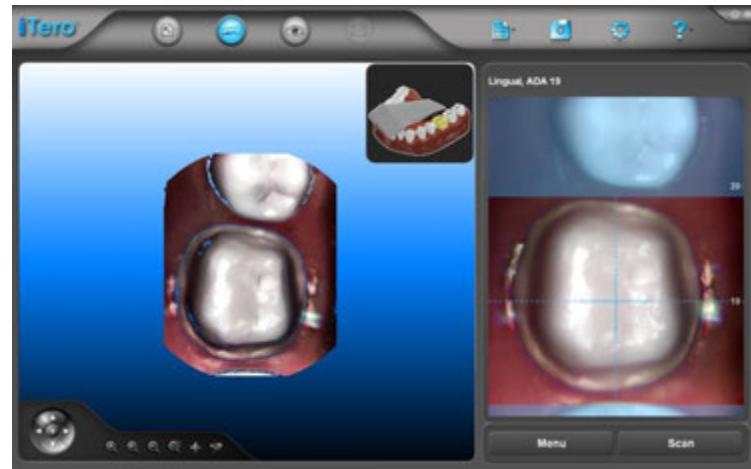


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Real Time Modeling

• Real Time Modeling Process

- Segment Scanning
 - Opposing arch
 - Buccal
 - Occlusal anchor
 - Palatal/lingual
- Preparation
 - Occlusal 
 - Lingual
 - Buccal

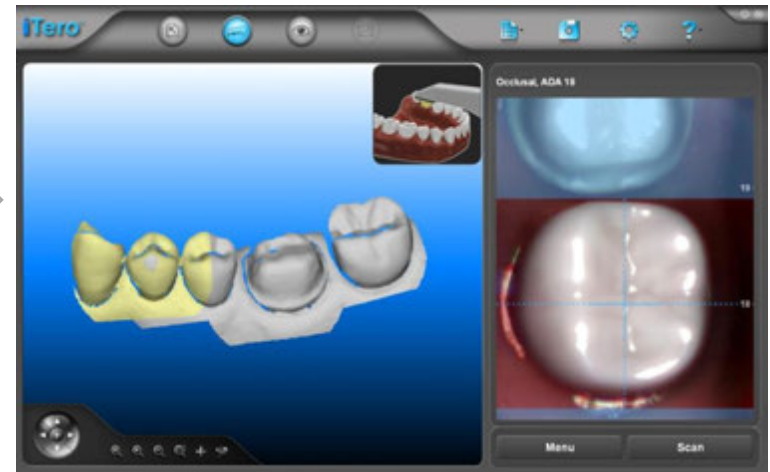
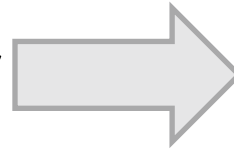
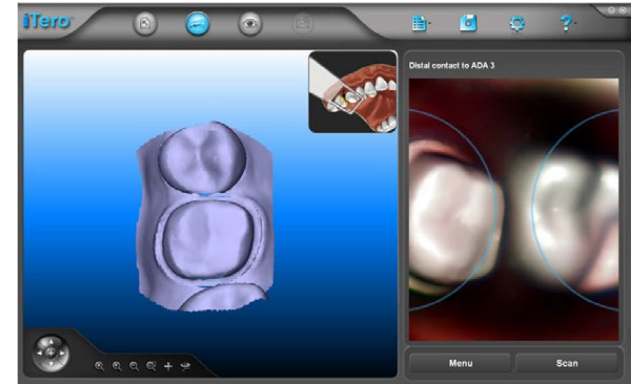
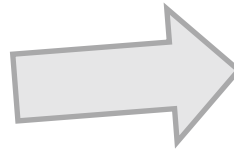


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Real Time Modeling (Cont.)

• Real Time Modeling Process

- Segment Scanning
 - Inter-proximals
 - Distal contact
 - Mesial contact
 - Preparation Arch
 - Buccal
 - Occlusal anchor
 - Palatal/lingual

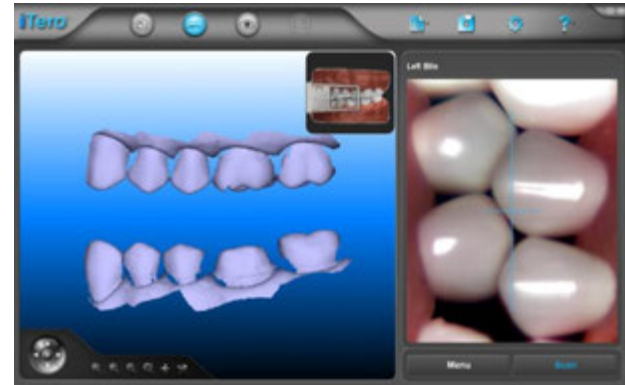
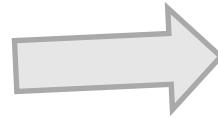


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Real Time Modeling (Cont.)

- Real Time Modeling Process

- Segment Scanning
 - Bite
 - One for posterior
 - Two for anterior

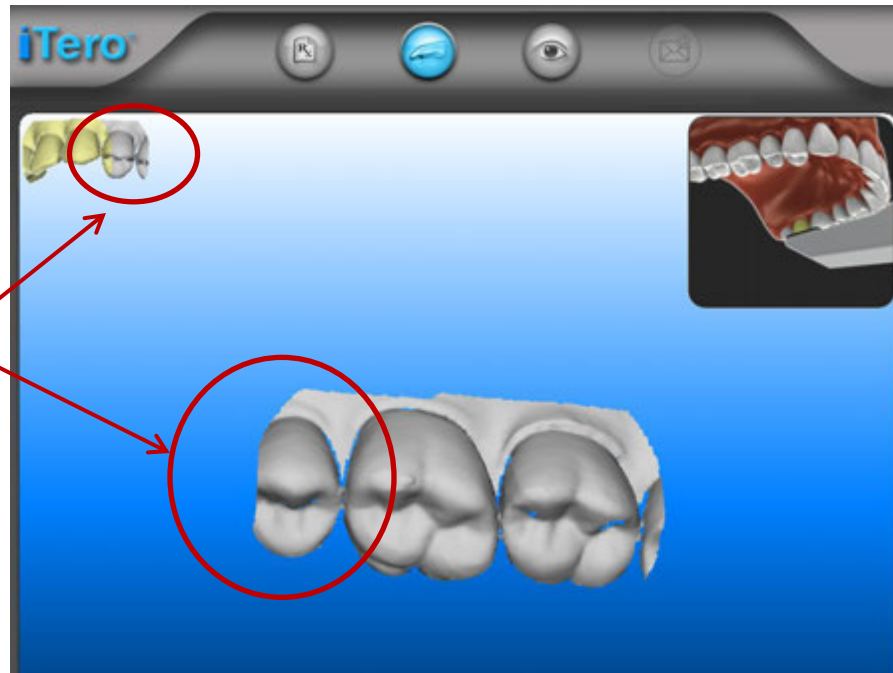


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Registration Algorithm

- **Unregistered Scans**

- Scans that do not stitch to the main model will be shown in upper left corner, when possible these scans will stitch to each other. This makes it possible to identify the corrective scan.

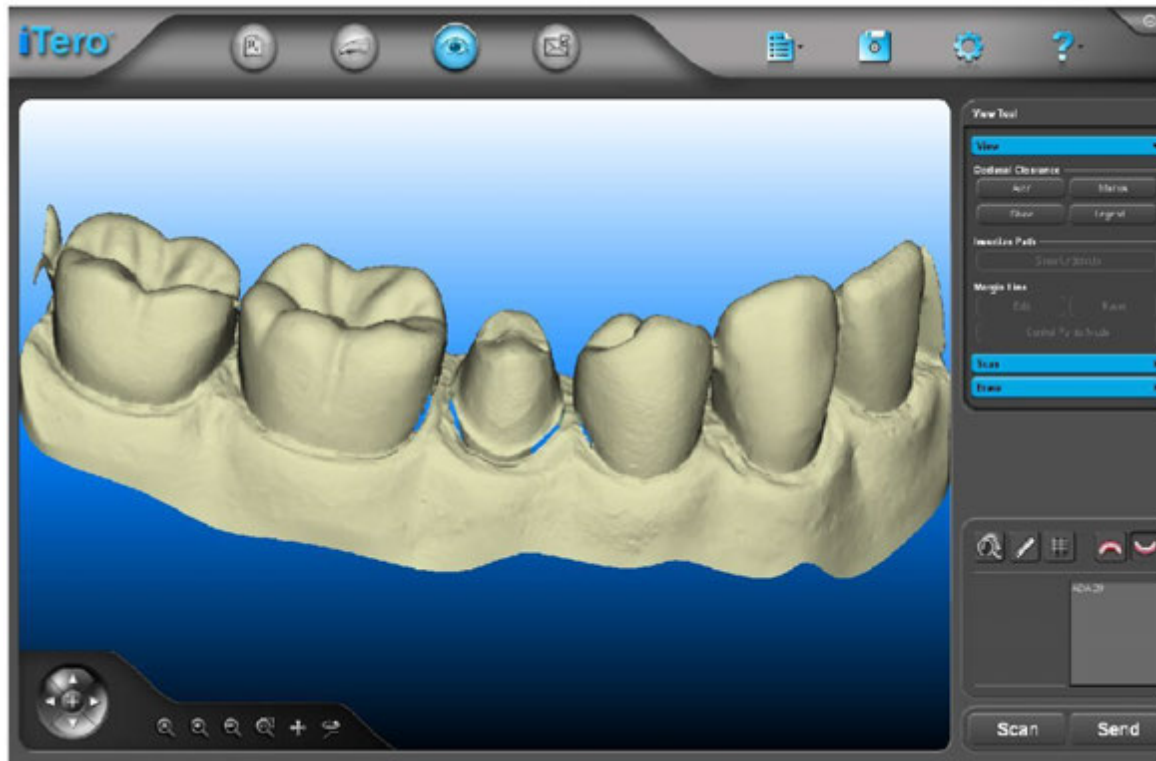


Taking an occlusal shot of the second bicuspid would allow for proper stitching to the main model.

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Viewing of Arch with Preparation Scans

- Upon completion the system will show a high resolution digital model with the preparation scans.



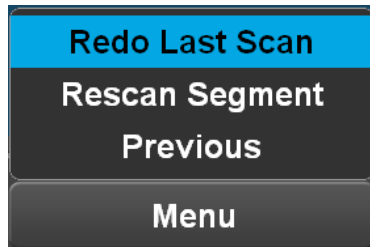
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Foot Pedal Options

•Foot Pedal Options Added

- Foot pedal menu commands have been added and are now more intuitive.

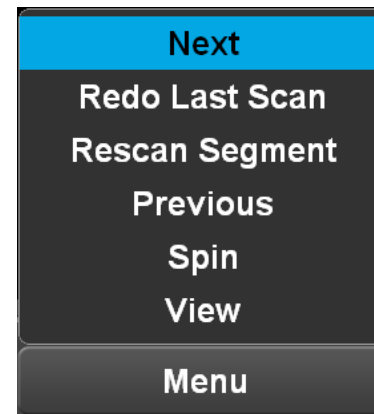
Guided Scanning Menu



Options Scanning Menu



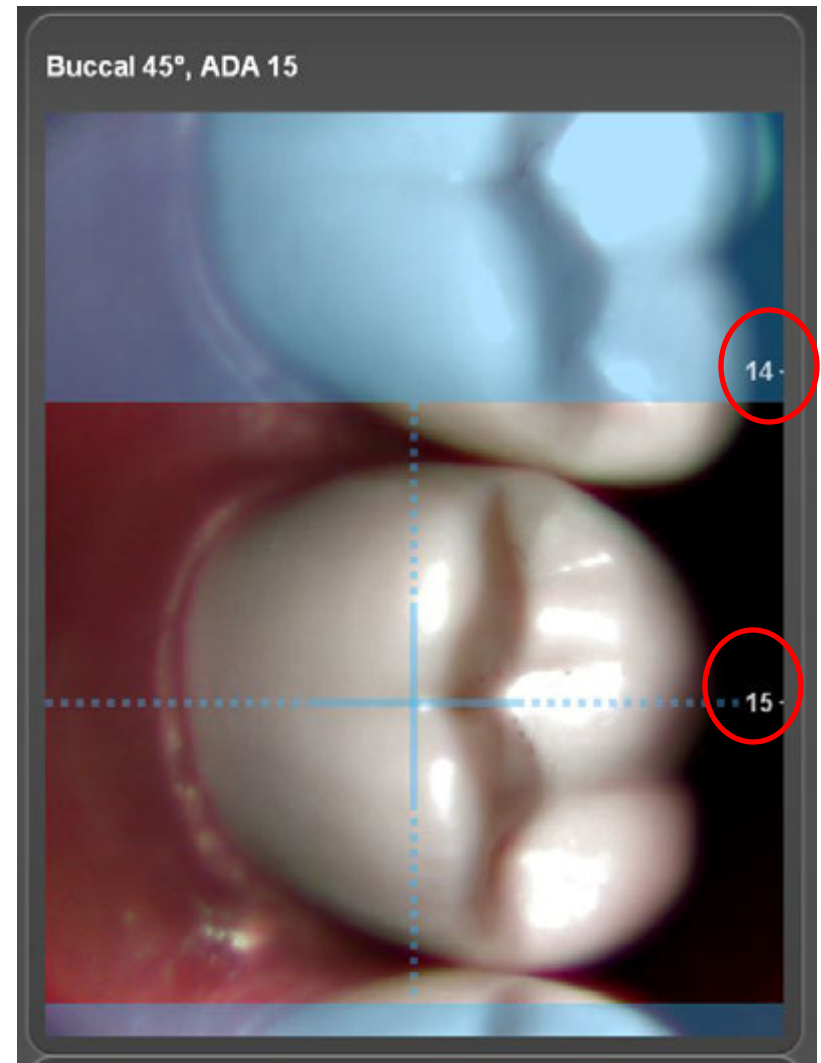
Preparation Scanning Menu



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Tooth Positioning Guide

- **Tooth positioning guide**
 - Addition of translucent area with crosshair for ease of properly centering tooth being scanned
 - Ensures proper overlap for future scans
 - Tooth numbers are also visualized within the viewfinder

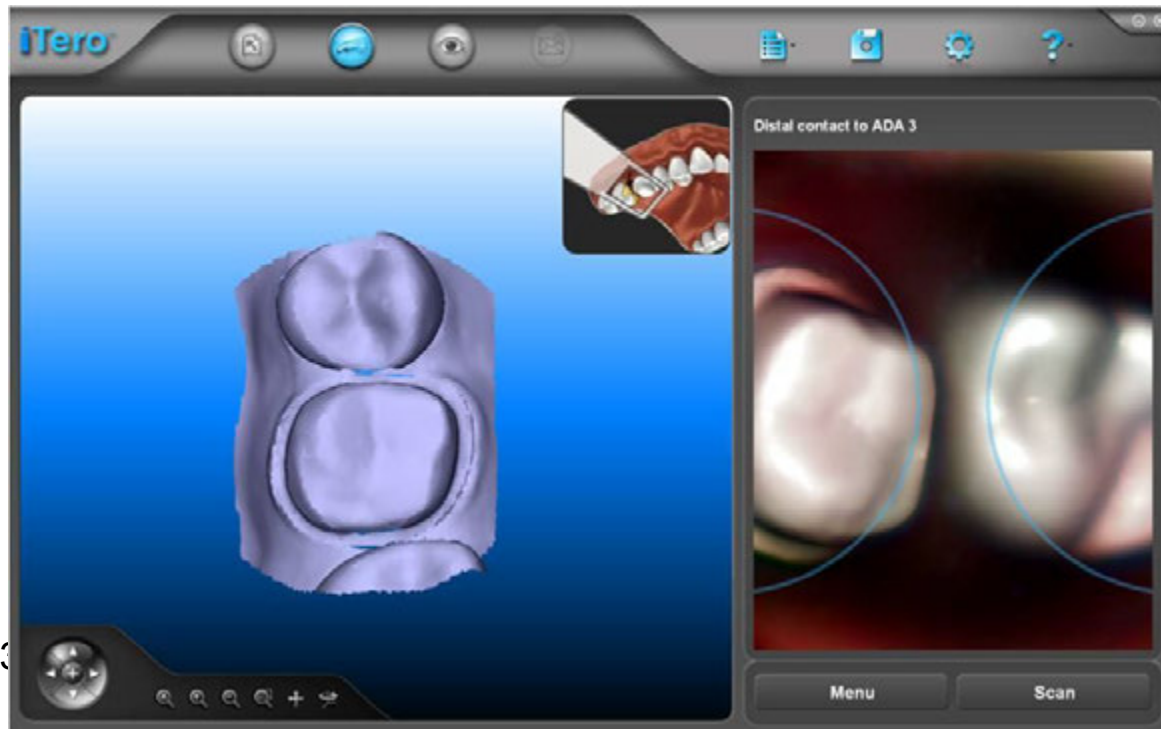


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Tooth Positioning Guide

- Capturing adjacent tooth contacts

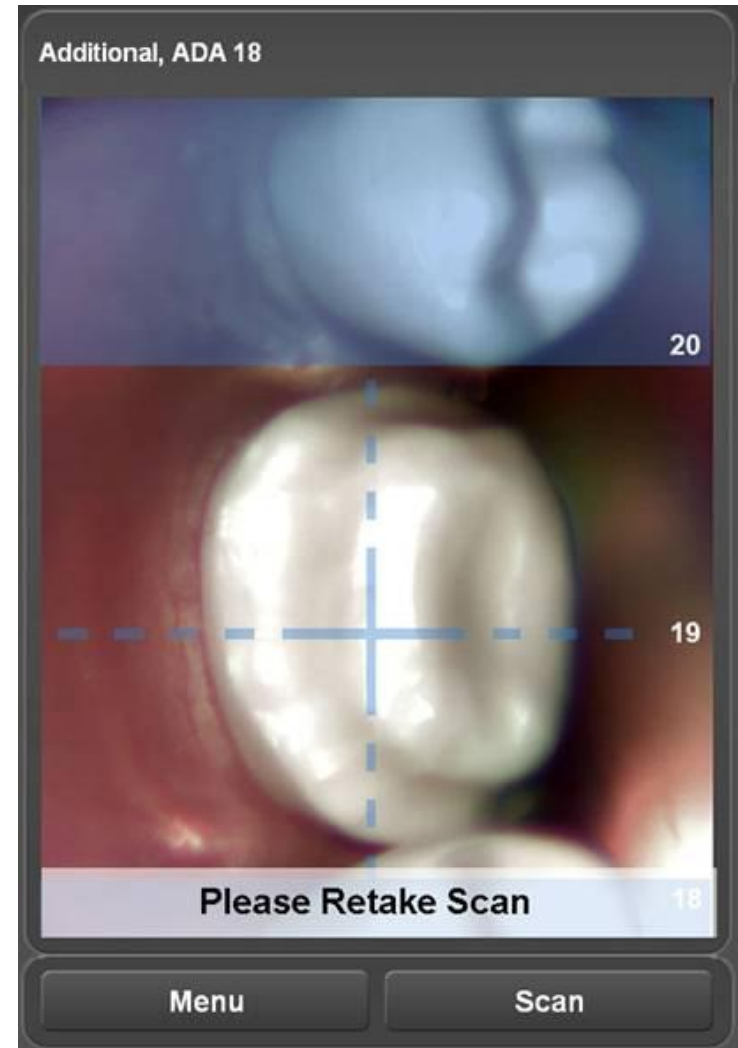
- Positioning guides (blue semi-circles) placed in viewing window provide roadmap for placement of adjacent contacts
- Provides guide for proper overlap between prep and contact tooth



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Exception Messaging

- **New exception messaging**
 - when scan is unsuccessful due to movement the system will provide a tone and visual note in the scanning window to retake the scan

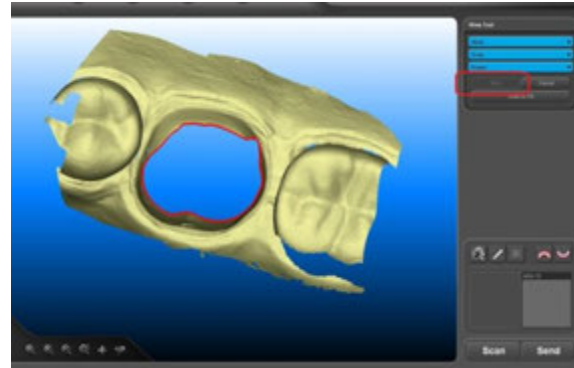
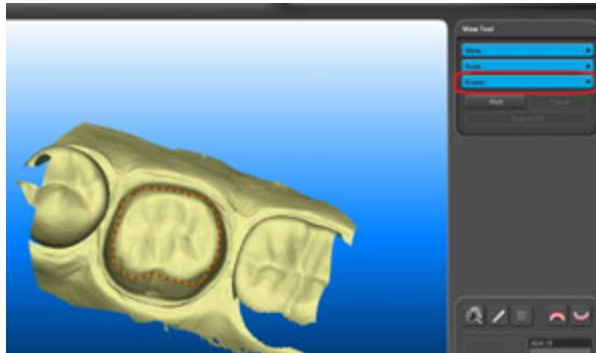


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Eraser Tool

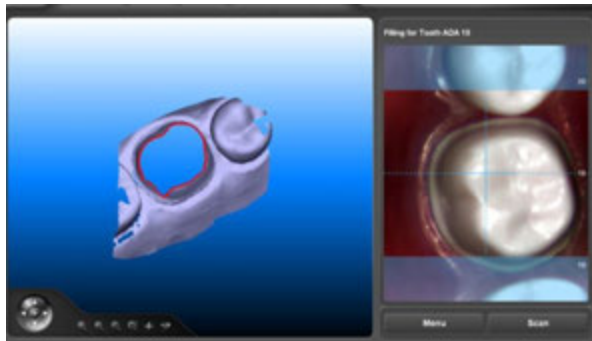
- Using the Eraser Tool for Occlusal Reduction

Step One: select tooth



Step One: Mark area removed

Step Two: Select mark button



Step Three: Scan to fill

Step Four: Confirm

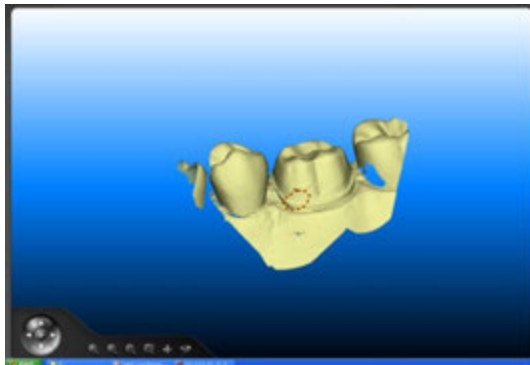
Eraser Tool (Cont.)

- Preparation and Margin Adjustments

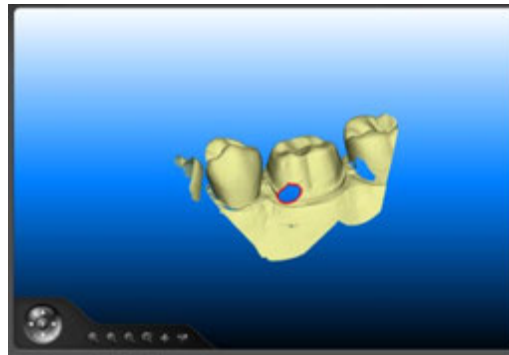
The eraser tool allows you to make highly-targeted corrections



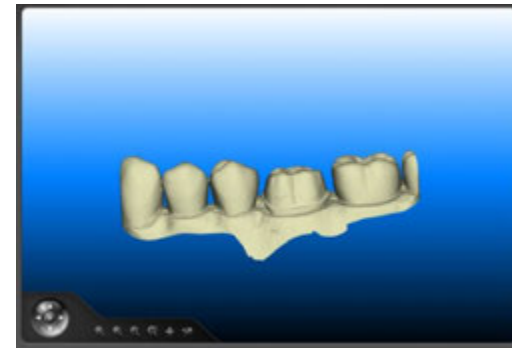
Step One: select tooth



Step Two: *mark area*



Step Two: *scan to fill*



Step Four : *confirm*

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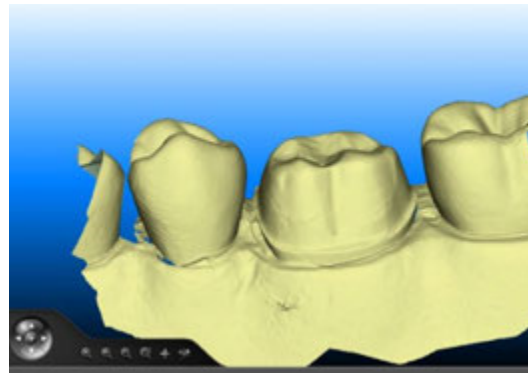
Margin Marking Tool

- **Mark Margin Tool**

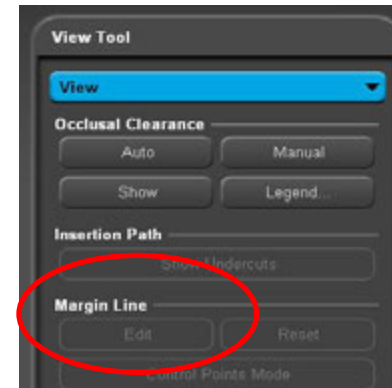
- When needed the ability to mark margins is available



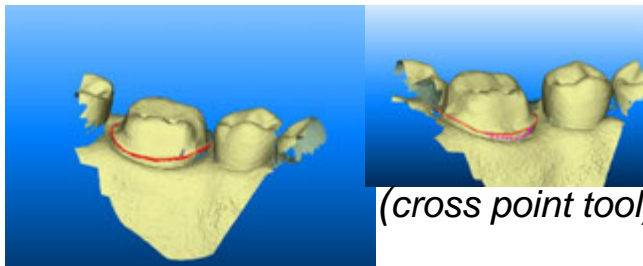
Step One: *select tooth*



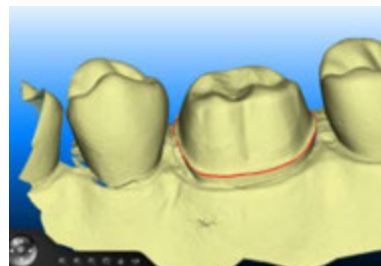
Step Two : *review for tissue*



Step Three : *edit button*



Step Four : *mark margin*
(Peretz) 2012



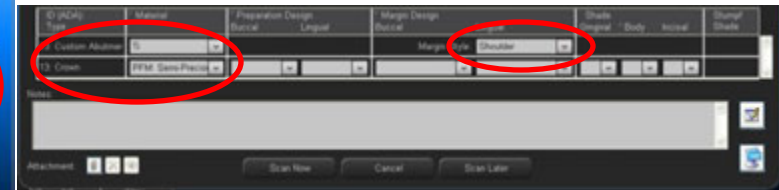
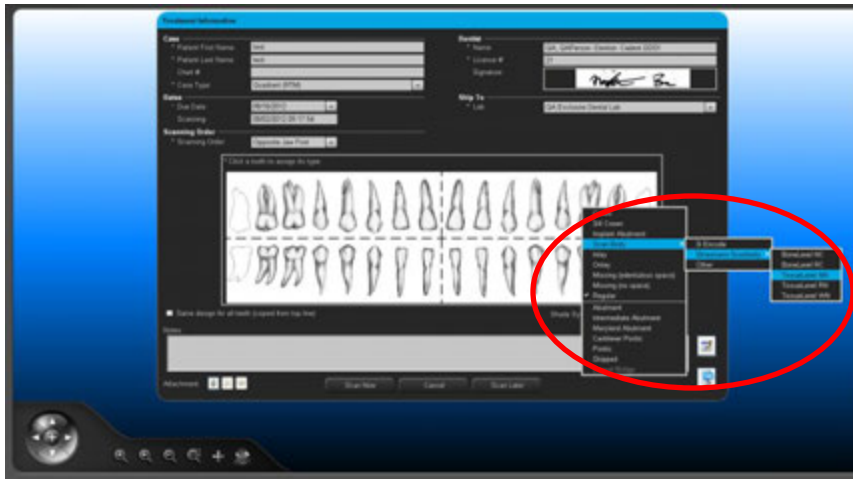
Step Five: *confirm margin*



Step Six: *confirm margin*

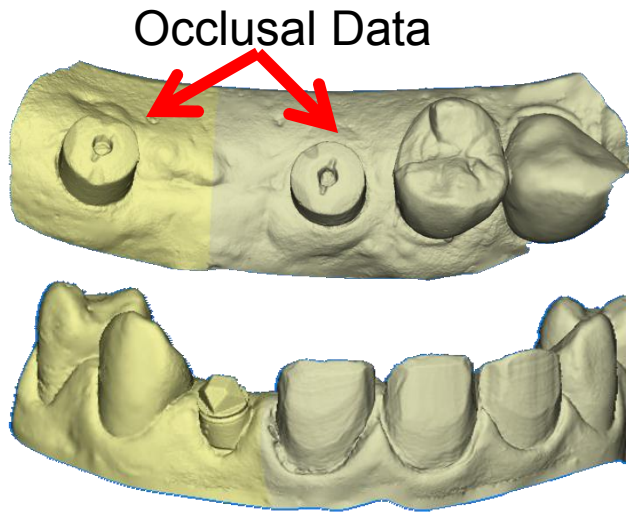
Scan Bodies

- Scanning Scan Bodies for Validated Implant Systems e.g. Straumann and Biomet 3i
 - Marking the treatment information



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Scan Bodies (Cont.)



- Guidelines of scanning scan bodies

- The scanning procedure for a scan body is exactly the same as for a prepared tooth
- Capture complete occlusal data
- Tissue needs to be captured



- Due to the size of some scan bodies it can be challenging to scan the adjacent tooth contacts. The user may remove the scan body when prompted to take the contact scans and leave it out for the remainder of the scanning protocol.

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Review #1

- Your iTero system is now authenticated by MyAligntech and requires a user name and password
 - True
- Your user name and password for your secure scanner login is the same as that for your MyAligntech account
 - True
- Real Time Modeling provides a high resolution 3D image for your review chair side
 - True

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Review #1

- The scanning procedure for Real Time Modeling is segment scanning
 - True
- For scanning the buccal it is best to hold the wand at a _____ angle
 - 30
 - 45
 - 90
- Scans that do not stitch to the main model appear in the upper _____ corner
 - Left
 - Right

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Review #1

- Upon completion of the scan the system will show a _____ model with the preparation scans
 - High resolution 3D
 - Low resolution 3D
 - High resolution 2D
 - Low resolution 2D
- During scanning the tooth should be centered in the middle of the translucent window?
 - False

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Review #1

- When capturing the contacts the _____ should be captured between the semi circle contact guides
 - Border
 - Interproximal space
 - contacts
- The exception messaging is a _____ and a _____
 - Voice/message on screen
 - Tone/message on screen

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Review #1

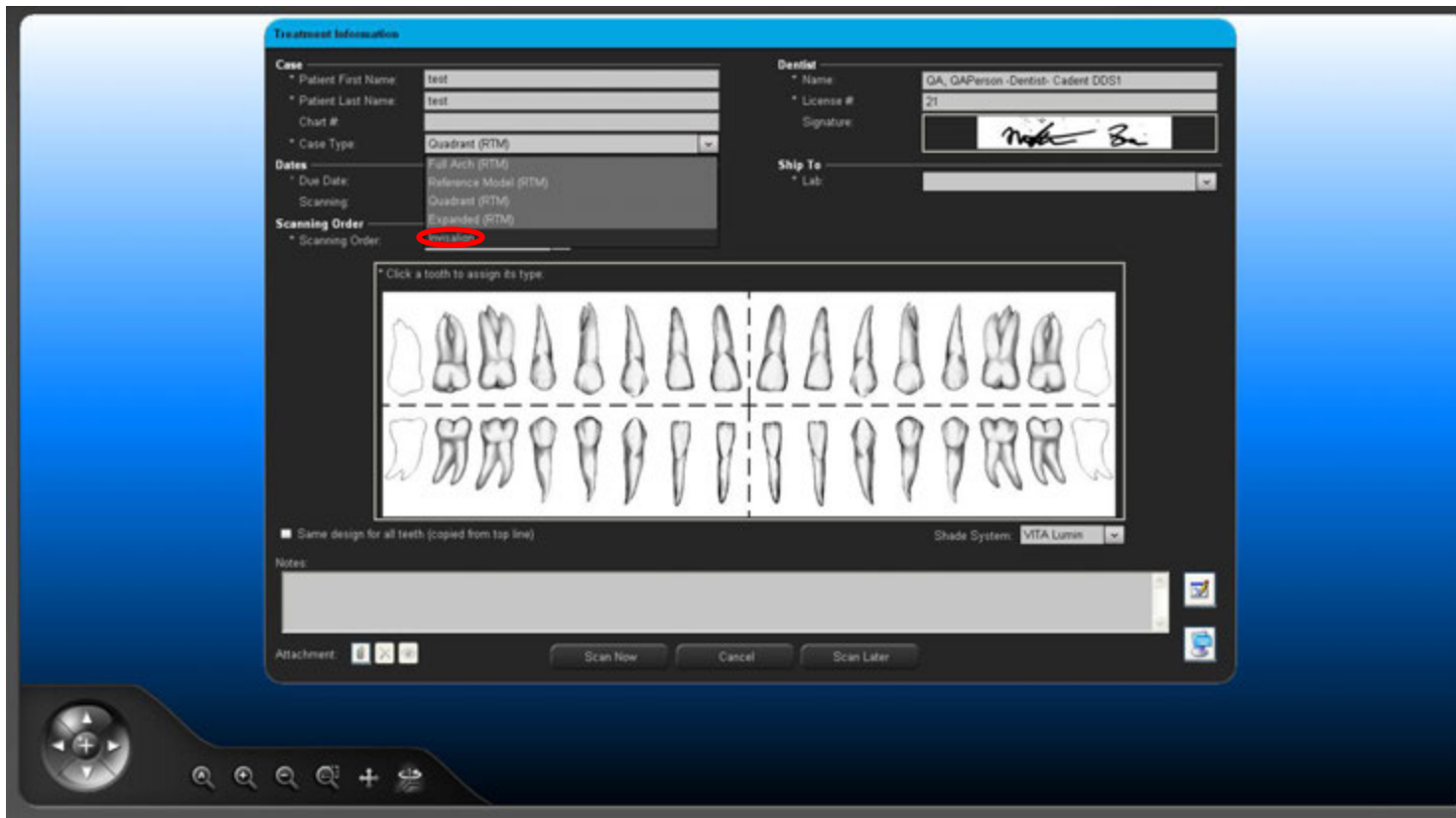
- The eraser tool can be used for correcting the occlusal clearance
 - True
- When using the eraser tool it is important to select _____ anatomy than what was reduced in vivo
 - More
 - Less
 - Same amount
- Scanning scan bodies is now available
 - True
- It is possible to remove the scan body during contact

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scanning

- True

Invisalign Scanning

- Ability to perform Invisalign scanning for licensed Invisalign providers



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Review #2

- Invisalign scanning is available to licensed Invisalign providers only
 - True
- A rock n' roll technique is effective to capture complete data during Invisalign scanning
 - True

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Review #2

- During Full Mouth Invisalign scanning:

- it is important to capture
 - at least _____ gingival tissue
 - 3mm
 - 1mm
 - **2mm**
 - 5mm
 - The _____ edge
 - Anterior
 - **Incisal**
 - Posterior
 - Complete _____ contacts
 - Mesial
 - Distal
 - **Both**

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Review #2

- During Full Mouth Invisalign scanning:
 - it is important to capture
 - Retro molar pad and Hamular notch
 - True
- Successful scanning for Invisalign requires practice
 - True

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MyAligntech

- Simply sign in by using your email address and your password

MYALIGNTECH

iTero™ iOC™ OrthoCAD®

Email:

Password:



Remember username

[Forgot Your Password?](#)

 **invisalign®**
Science in Every Smile

[Invisalign Doctor Site >>](#)

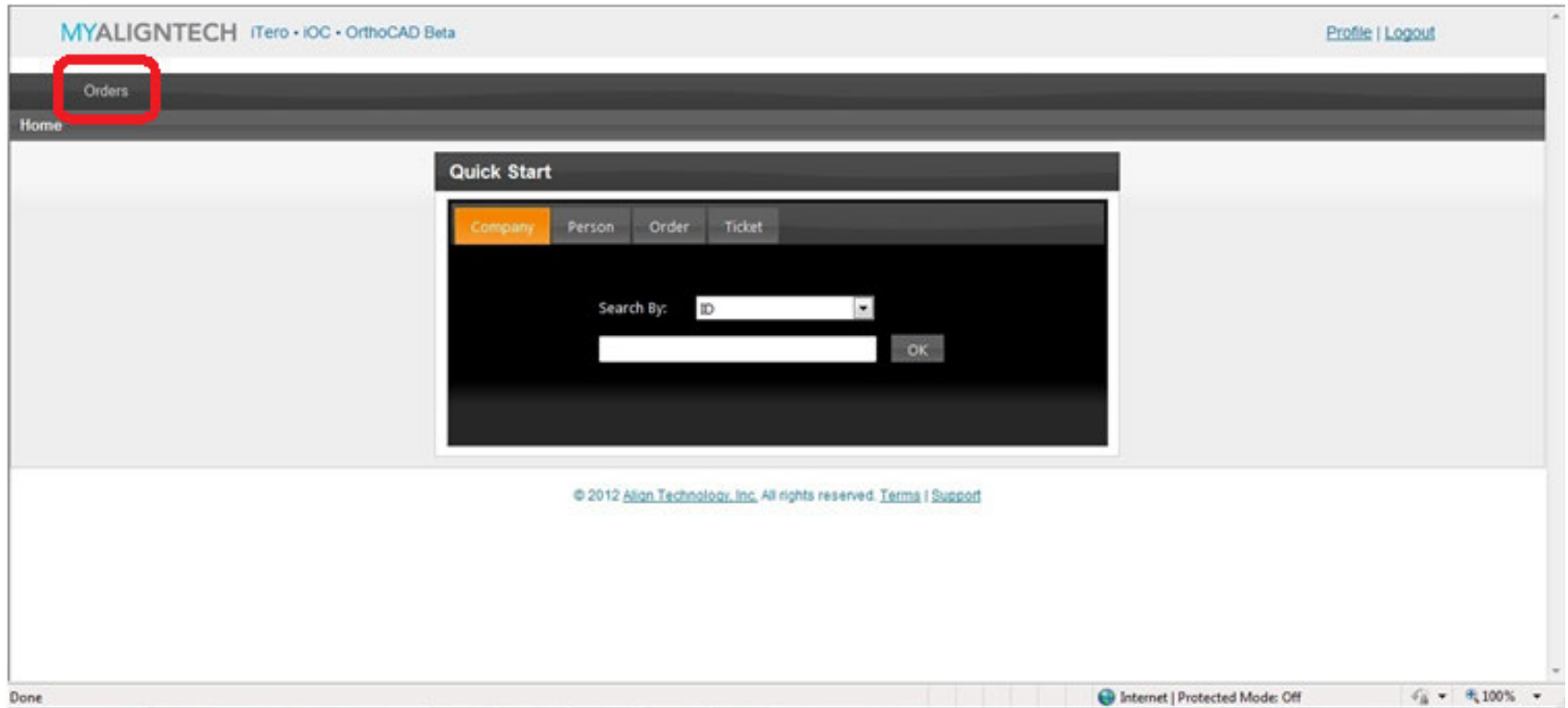
[Not yet an Invisalign provider?](#)

See how other professionals are using Invisalign to satisfy their patients and grow their practices. [>>](#)

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MyAligntech (Cont.)

- On the quick start page click on orders



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MyAligntech (Cont.)

- Check Status of Case

The screenshot displays the MyAligntech web application interface. At the top, the header includes the logo "MYALIGNTECH" and navigation links for "iTero", "iOC", and "OrthoCAD Beta". On the right side of the header, there are links for "Profile" and "Logout". Below the header is a dark navigation bar with "Home" and "Orders List" (highlighted with a red box) under the "Orders" menu. The main content area features a "Quick Start" panel with an "Order" tab. Inside this panel, there is a search form with the label "Search By:" and a dropdown menu set to "ID". Below the dropdown is a text input field and an "OK" button. At the bottom of the page, there is a copyright notice: "© 2012 Align Technology, Inc. All rights reserved. Terms | Support".

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MyAligntech (Cont.)

- Check Status of Case

MYALIGNTECH iTero • IOC • OrthoCAD Beta | Profile | Logout

Orders

Home > Orders > Orders List

Clinical Orders List Apply Reset Export

Company: **Align, Dental DDS (San Jose)** Date Range: 2012/04/25-2012/07/25

ID	Code	Patient Name	Ordered By Co	Ordered By	Ship To	Order Date	Acquisition Date	Due Date	Date Updated	State	Case Type	
5253759	5PAZ3H	Test	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/07/11	2012/07/11	2012/07/11	2012/07/11	Quadrant	
5245444	5P29WR	Test	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/07/11	2012/07/11	2012/07/11	2012/07/11	Quadrant	
5236334	5NSV0F	Test	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/07/11	2012/07/11	2012/07/11	2012/07/11	Expanded	
5236238	5NSRX6	Test	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/06/14	2012/06/14	2012/06/28	2012/07/23	Full Arch	
5232127	5NMF9F	Test	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/06/12	2012/06/12	2012/06/26	2012/06/14	Completed	Quadrant
5230074	5NJA2Z	Test	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/06/11	2012/06/11	2012/06/11	2012/06/11	Doctor Download	Invisalign

- Scanning
- Order Registration
- Align Production
- Doctor Download
- Doctor Review
- VS Revision
- iQ tray Production
- On Line Registration
- Registered Order
- iQ Shipping to Dr.
- Lab Review
- iDX
- Shipping
- Cancelled
- Completed
- Inactive
- Align Export
- Manual Align Export

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MyAligntech (Cont.)

- Exporting Files

- Export STL files from PC to external parties
- Preferably not from your scanner PC

MYALIGNTECH iTero • IOC • OrthoCAD Beta

Orders

Home > Orders > Orders List

Clinical Orders List

Company: **Align, Dental DDS (San Jose)** Date Range: 2012/04/25-2012/07/25

ID	Code	Patient Name	Ordered By Co	Ordered By	Ship To	Order Date	Acquisition Date	Due Date	Date Updated
5253759	5PAZ3H	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/07/1	2012/07/1	2012/07/1	2012/07/1
5245444	5P29WR	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/07/1	2012/07/1	2012/07/1	2012/07/1
5236334	5NSV0F	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/07/1	2012/07/1	2012/07/1	2012/07/1
5236238	5NSRX6	Test	Align, Dental DDS (San Jose)	Dr. Align Dental	Align Dental Lab	2012/06/14	2012/06/14	2012/06/28	2012/07/23

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MyAligntech (Cont.)

• STL Export

- Upon entering the order information two actions can be enabled
 - Open file
 - Export file

Order Information

Order ID: 5491022 First Name: TEST Company: ALIGN
Order Code: HZADER Last Name: TEST Doctor: TEST
Case Type: Quadrant Chart Number: Doctor License: 2134567
Registration Date: 2012/08/01 Acquisition Date: 2012/08/01 Tracking Number: 00000000
State: Completed Milling Site: Int. Site: Align Technology de Co.
Order Status: Active

Notes:

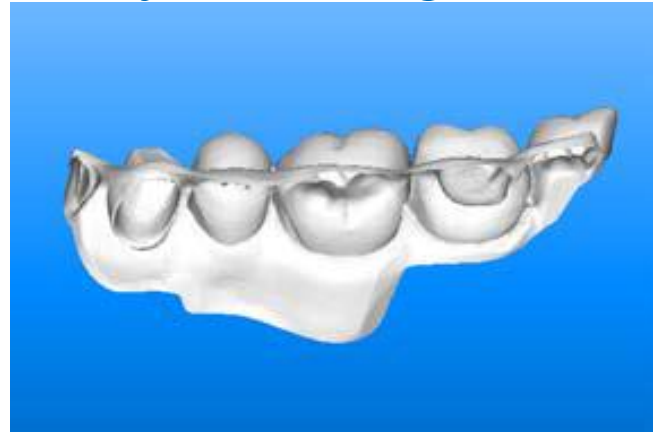
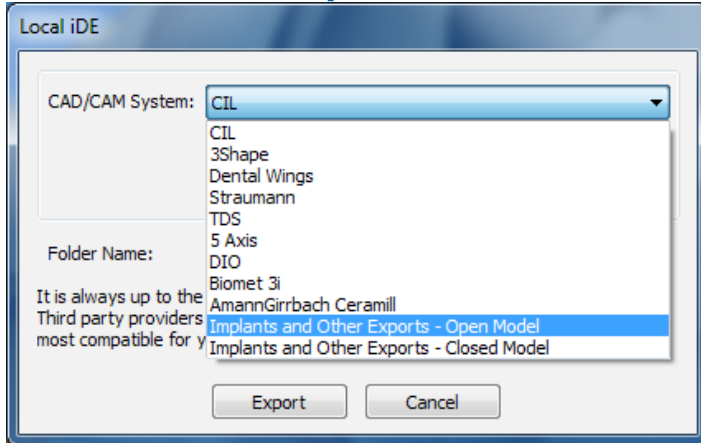
Actions: **Open File** **Export (iTero 4.1 or higher)**

Order Details ID	Item	Quantity	Ship To	Bill To	Due Date	Shipping Date	Delivery Date	Status
5491022	Quadrant Scan	1.00	.	.	2012/08/15	2012/08/02		Completed

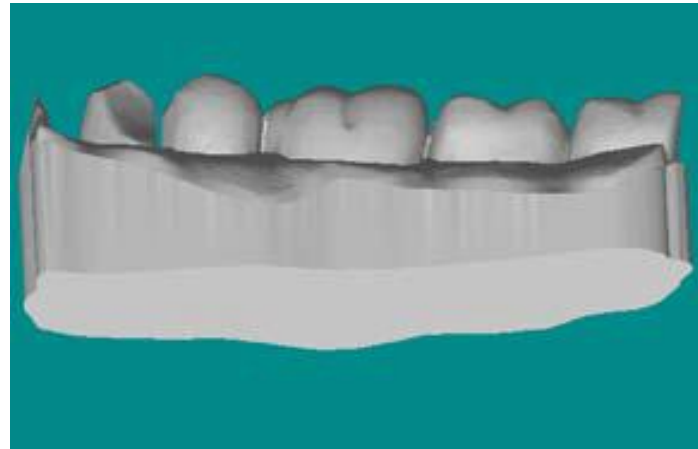
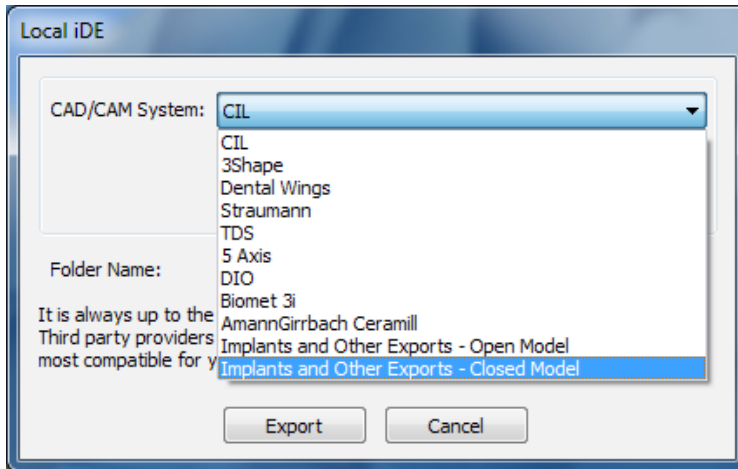
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MyAligntech (Cont.)

- Choose a specific CAD/CAM System or generic option

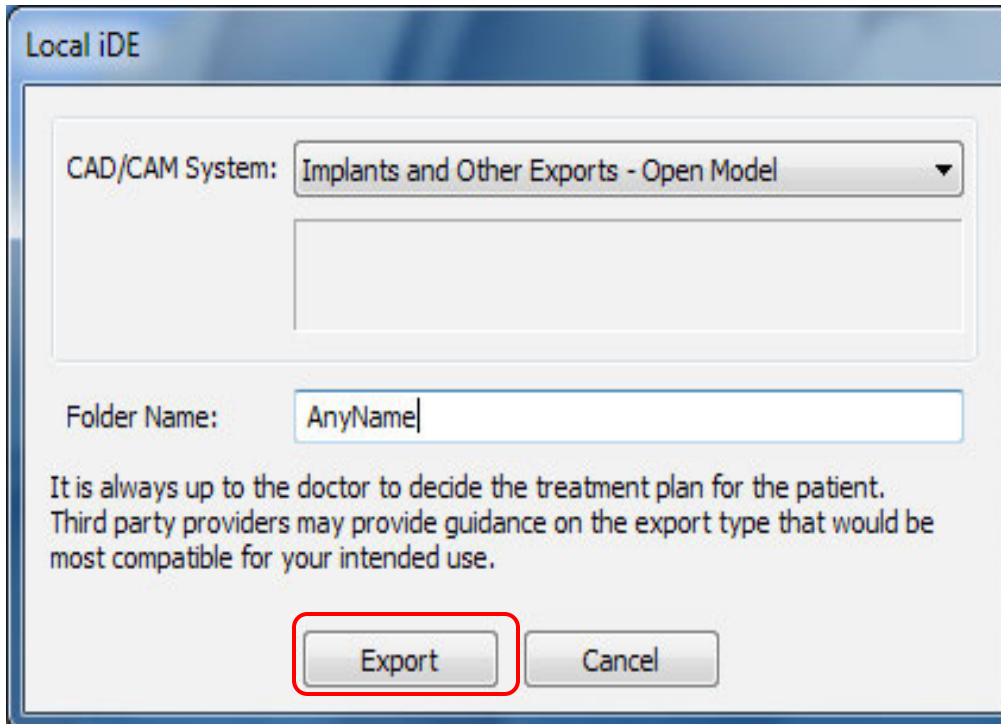


Open Model – open mesh files with zero wall thickness.



Closed Model – closed mesh solid files.

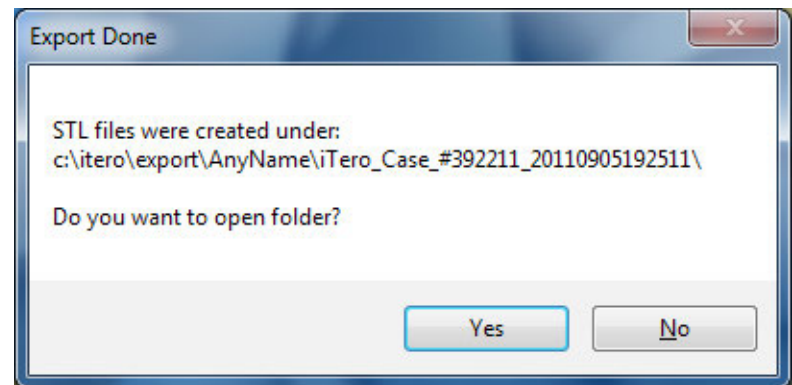
MyAligntech (Cont.)



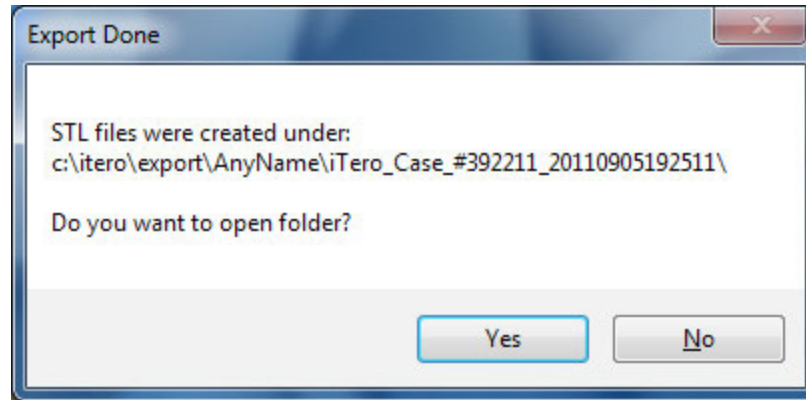
After choosing a CAD/CAM System name the export folder

Press “Export” to begin the STL export process. Once completed, the following window will appear; indicating the export was completed.







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MyAligntech (Cont.)



Clicking “Yes” will open the export folder

Name	Date modified	Type	Size
 itero_export_#392211_v10.xml	9/6/2011 10:22 AM	XML Document	5 KB
 itero_export_#392211_v21.xml	9/6/2011 10:22 AM	XML Document	6 KB
 itero_export_#392211_v22.xml	9/6/2011 10:22 AM	XML Document	6 KB
 itero_export_#392211_v23.xml	9/6/2011 10:22 AM	XML Document	7 KB
 lower_jaw_without_ditch_#392211.stl	9/6/2011 10:22 AM	SolidView Docum...	6,837 KB
 upper_jaw_without_ditch_#392211.stl	9/6/2011 10:22 AM	SolidView Docum...	6,837 KB

Within the export folder, there are optional XML metadata files that can be used by various CAD/CAM systems.

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Review #3

- MyAligntech enables you to monitor your case status and _____
 - Send x-rays
 - Export STL files
- It is a good idea to view and review the chosen file before beginning the export process
 - True
- Before exporting files the case must be in _____ of the Align process
 - The Beginning stage
 - The Final stage
 - Any stage

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Summary

- **Conclusion:**

- Secure Log-In
- Treatment Information (RX) Enhancements
 - Scan Body Applications
 - Attachments
- User Interface
 - Real Time Modeling (RTM)
 - Enhanced Guided Tooth Positioning
 - Added Foot Pedal Options
 - Exception Messaging
 - Eraser and Margin Marking Tools
- MyAligntech
 - Quick tips for checking case status in MyAligntech

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