iTero® Element™ Intraoral Scanner Orthodontic Training Guidebook with Invisalign® Treatment
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System Configuration

- **Wheel Base**
- **Touch Screen**
- **Scanner Sleeve**
- **Wand / Touchpad**

Optional counter stand may be purchased separately.

The on / off power button is located at the bottom right-hand corner of the system under the power indicator light.
Wheel Base

Wheel Locks

Power Cord
System Components / Touch Screen

- High definition multi-touch 19 inch display
- Works with all clinical glove types
- Refer to Operation Manual for cleaning and disinfection instructions
Scanner Sleeves

Blue protective sleeve protects the lens when the wand is not in use.

Confirm sleeve is completely seated prior to scanning.

Disposable sleeve is made for single use on patient scanning. Discard sleeve after every patient.

To remove and place sleeve use the side grips.

Note: Please do not touch the wand lens.
To activate the wand touchpad, press and release both side buttons simultaneously.

To start and stop scanning, press and release either of the side buttons.
Holding the Wand

For proper ergonomics and to avoid fatigue, make sure the elbows are close to the body, holding the wand in the thin area behind the wand sleeve.

Do not cover the air vents.
Pressing and releasing both the buttons simultaneously will activate the touchpad. Once activated swiping the touchpad on the wand will allow movements between scan segments.

The current scanning segment is displayed in the indicator box between the arrows.

To rotate the model on the screen press and hold the wand touchpad.
Care and Maintenance

Recommended best practices for cleaning and disinfecting the Scanning Unit, Base Unit, Wheel Stand, and/or Counter Stand in between each patient use.

- Do not spray disinfectant directly on scanner system surfaces
- Spray the disinfectant on a towel, or use disinfectant wipes for the Scanning Unit and Base Unit
- Follow the disinfectant manufacturers’ instructions for appropriate contact time
- Remove residual liquid disinfectant with a lint-free, clean cloth

*Please refer to Operations Manual for further instructions.

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Logging In

To register the iTero® Element™ system, have the following information available*

- User Name
- User Password
- Company ID

* To retrieve User Name, User Password, and Company ID, please contact iTero® Customer Advocacy at 1 800 577 8767.
To log-in to the scanner,

- Choose the doctor name
- Enter user name and password*
- Check the ‘Remember Me' box to remain logged on to the scanner for 9 hours

* To retrieve User Name, User Password, and Company ID, please contact iTero® Customer Advocacy at 1 800 577 8767.
Home Screen Icons

- Double tap to connect to an iTero Customer Advocacy agent for remote troubleshooting (please call iTero Customer Advocacy first)
- Tap to set your preferences
- Tap to lock the desktop
- Tap to enter the Learning Center or start training
- Tap anywhere on screen to close this help overlay
- Tap to check the status of your orders
- Tap to view notifications, updates, and other messages from Align Technology
The graduation cap is the link to the Learning Center.

Select this icon to access all training support materials

- Online training videos
- Training and reference documents
- Register and view webinars
To further support HIPAA compliance, the Lock option secures the desktop and returns screen to the login page.

Locking the system for cleaning is helpful to avoid unintended entries.
Tapping on the Settings icon brings the screen which allows the change of computer settings, scanner settings, time zone, language, add the Doctor’s signature, license number, and sync the system for any new updates.
Within the **Scanner Settings**, select the preference for the Gyro and Touchpad orientation.

For example, in the above picture, the selections are for the wand tip toward the screen for the gyro and the base toward the screen for the touchpad.
Settings – Scanner Settings

• Enter doctor license number in the box provided
• Sign in the signature box
• Select preferred option
Help Overlay

One tap on the question mark will enable a transparent overlay that will provide a brief overview. Tap anywhere to close the Help screen and return to the relevant screen.
Tapping on the headset will allow for remote access for troubleshooting. Contact **Customer Advocacy** first at 1 800 577 8767.

After contacting Customer Advocacy, an agent will review the specific steps in order to connect remotely.
Within the Orders icon is the list of orders that are either In Process or Past Orders.
Within the **In Progress** section, view an Rx, continue, view, or delete a scan.

Within the **Past Orders** section, view an Rx, open the order using the Viewer, or open an Invisalign® scan using the viewer or the Invisalign Outcome Simulator.
To search for a patient from the iTero® database, select the Patients icon on the home page.

The Patients order list will open.

Search by patient name or chart number to find the patient.
The Patients icon can be used to start a new scan, open previous scans with Viewer and/or Invisalign® Outcome Simulator.
The **Messages** icon is a badged icon that notifies the user of important messages from Align Technology such as product updates, upcoming educational sessions, or internet connectivity issues.
Ergonomics play a key role to comfort while scanning. It’s recommended to place the patient in the supine position.

Lower the patient’s head and sit comfortably with elbows on the side. Place the display on dominant side to see the screen without turning or stretching.

The wand should fit comfortably in the palm of the hand with a light grip. There is no need to grip the wand tightly.
Opening the new scan icon will jump to the Rx page. The Rx is the section to enter all the necessary patient information. The sections marked with a red asterisk (*) are required information.
There are several **Case Types** to choose from.

Any special instructions for Invisalign® treatment must be noted in the Invisalign Doctor Site.
The iTero® Element™ scanner offers Guidance Hints that helps recall the scanning sequence.

Deactivate the Guidance Keys by checking the box, ‘Don’t show again’.

Reactivate the Guidance Keys in the Settings gear icon.
Scan the occlusal surface in a single continuous motion.

When the wand reaches the cuspid, continue by swiping across the anterior, tilting slightly to the lingual until the wand touches the contralateral cuspid.

Proceed by moving the tip straight back to the terminal molar.
Scan the lingual by rolling from the occlusal. Bring the cable end of the wand out to the side and maintain a vertical 45 degree angle of the wand tip to the lingual surface.

To capture the mesial and distal interproximal anatomy, twist the wand tip right and left as the wand moves around the arch. Holding the wand tip against the tooth will help to retract the tongue.
From the lingual, roll to the buccal at a 45 degree horizontal angle and use a rocking motion as the wand moves towards the midline to capture the interproximal anatomy.

After crossing the midline, begin on the contralateral terminal tooth and continue with the same rocking motion to capture the buccal surface from the posterior to the anterior.

Moving from posterior to anterior on the buccal reduces the interference from the cheek and provides a smoother scanning experience.

Bring the cable end of the wand towards the arch to capture the mesial interproximal anatomy and taking the cable end away from the arch will capture the distal interproximal anatomy.
Anterior / Incisal

Place the wand with the cuspid and lateral centered in the view finder and roll from the lingual surface over the incisal edge to the facial.

Repeat this step on the contralateral side.

These scans help to ensure the lingual segments and buccal segments are joined with accurate incisal surfaces.

This step is critical for properly fitting Invisalign® clear aligners.
When the Optimized Scanning Feature icon is activated, areas of missing anatomy will be highlighted in red when scanning in monochromatic mode and purple when scanning in color mode. This feature will alert you to areas that need additional scans. The color icon allows you to toggle between color or monochromatic modes. This applies to both scanning and viewing all case types.
Switch to the opposing arch by pressing on the arch on the touchscreen or use the touchpad on the wand.

Follow the same protocol for the upper as with the lower: occlusal, lingual / palatal, buccal, and incisal edge.
Scanning the Palate

- For Invisalign® + iRecord® or iRecord scans
- Once completed the lingual tooth anatomy
- Begin at the midline directly behind the central incisors
- Scan in a straight line to the soft palate
- Fill in the palate from the midline to the teeth on each side
The final segment is the bite. Prior to scanning, confirm the patients bite. Have the patient open, use the wand to retract the cheek, and have patient close in centric occlusion. Bring the wand tip gently against the tooth anatomy.

Moving forward in a small wave like motion capture 3 – 4 teeth and then move to the contralateral side using the same technique.
Complete the following steps if there are segments missing in your scan:

- Go back to scan mode
- Complete the missing segments that are highlighted in red
- Repeat above steps if necessary
After you are done scanning, you can use the Scan Timer icon to view your scanning time. The Elapsed Scan Time is the actual time the wand was actively scanning. The Elapsed Total Time is the time while you were in scanning mode, whether the wand was actively scanning or not.
Add Rx To An Existing Sent Scan – Allow Additional Workflows

Conditions for the Add Rx to be enabled:

- Accessible from Orders and Patient’s icons
- For cases except restorative and chair side milling
- Enabled up to 21 days from the case’s scanning date
- The model has to be located on the scanner’s base unit
Add Rx To An Existing Sent Scan – Workflow

1. Select case type

2. Add scans as needed

3. Tap on view tool

4. Send the case
For production of properly fitting aligners, evaluate the digital model for the following before submitting:

- Capture 2 mm of gingival tissue
- Distal wall of the terminal teeth
- Mesial and distal interproximal anatomy
- The complete incisal / occlusal surfaces of both mandible and maxilla
- Accurate bite with the patient in centric occlusion
Evaluate Digital Models

Distal wall of upper terminal teeth.

Distal wall of lower terminal teeth.
Evaluate Digital Models

The complete incisal / occlusal surfaces of both mandible and maxilla
Utilize the Occlusal Clearance legend to determine the distance between opposing teeth.
Submitting Case

To submit the case, simply tap on the envelope.

A prompt will appear stating that the scan will be available for treatment submission through the Invisalign® Doctor Site in approximately 15 minutes. Select OK.
Help / Display Screen Gestures

- Tap on the help icon for context sensitive overlays with instructions and tool descriptions.
- Use fingers to rotate, move, or zoom in on the scanned model for analyzing.
Using Eraser Tool

- Tap on the eraser icon
- Select the area to erase on the screen
- Tap on the scanner sleeve icon
- Scan to fill area erased
- Tap on the view icon
- Confirm correction
Using Trim Tool

Use the Edge Trim tool if there is excessive cheek or lip artifacts that should be removed from the scan

- Tap on the scissors icon
- Circle the area to remove
- Verify the selected area
- Tap on the green check mark
- Tap on the view button to confirm area has been trimmed as chosen
Tools – Deleting a Scan

- Available in scan mode
- Tap on the arch to be deleted
- Press and hold on the model
- Tap on the waste pail segment or broom icon
- Confirm deletion
- Rescan area

Remove an artifact (soft tissue)

Wrong jaw scanned

Tooth anatomy not stitching
Clinical Scenario
The patient is able to close on maximum intercuspation and produce solid contacts on articulating paper. During scanning, the patient was not able to bite properly.
Tools – Deleting a Scan and Correcting the Bite

Corrective Action
Erase and rescan bi-lateral bite

1. Tap on both bite segments to delete
2. Rescan
Tools – Deleting a Scan and Correcting the Bite

Verify new bite registration

Occlusogram display
Adequate contacts
Viewer is a tool that allows the scanner to manipulate and display the digital model for case presentations.

The icons on the left of the screen displays preset views of the model.
Select the arch to be displayed.

There are three layouts on the Viewer.

- Occlusal View (single jaw)
- Occlusal View (upper and lower)
- Gallery View
The Occlusogram tool can be shown in any view by tapping the Occlusogram icon.
In the **Gallery View**, the models in each window can be controlled separately for better evaluation.
The OrthoCAD® software is the digital model viewer for all your orthodontic cases.

After you send the cases on your iTero® Element™ scanner, it can be viewed, managed and analyzed with this powerful tool from any office computer or workstation.

Some clinical applications for this software are:
- Communicate between dental offices - printing or emailing the 3D models
- Perform diagnostic analysis of the 3D orthodontic models
- Presenting cases to patients for discussion of the treatment plan

To export STL or view model, Install OrthoCAD® on a workstation.
Call iTero® Customer Advocacy at 1 800 577 8767 for instructions.
MyAligntech* is designed to effectively manage patient cases and the orthodontic models produced by the iTero® scanner.

* To retrieve User Name, User Password, and Company ID, please contact iTero® Customer Advocacy at 1 800 577 8767.
To log on as an Account Administrator

- Select **Profile** on the **MyAligntech** landing page
- Select **Practice Management**
MyAligntech landing page will provide many options.

Click on the Orders link at the top of the page to view all orders.

Orders that require further action are listed in the Actions box.

On the right side, the Notification section shows alerts to communications from Align Technology.

The Quick Search enables the search for orders using various parameters.
There are several options in the Actions line

- **Open File** to view the model
- **Export** the file to send the file to 3rd parties*
- **Change Lab** to order a new milling model and send it to the lab

* Please contact iTero® Customer Advocacy at 1 800 577 8767 for software installations.
To export STL files from a workstation and send them to external parties, follow these steps.

1. Click on export.

2. Export type.

3. Data Format.

4. Export.

To export STL or view model, install OrthoCAD® on a workstation. Call iTero® Customer Advocacy at 1 800 577 8767 for instructions.
Log into the Invisalign® Doctor Site (IDS) through the link on the MyAlignTech website to access patient case files.

After sending a digital impression from the scanner, it may take up to 15 minutes for it to be available on the IDS site for submission.

The digital scan may be associated with a prescription in IDS prior to submitting the Invisalign order.
The Invisalign® Outcome Simulator is a software tool that shows patients the simulated outcome of their Invisalign treatment.

To use the Invisalign Outcome Simulator,

- Simply scan the patient under the Invisalign or Invisalign + iRecord® case type
- Send the case
- Go to the Orders or Patients page to open the case with Invisalign Outcome Simulator
The clinician can make real time adjustments to the simulated outcome as the clinician is showing the patient.

This tool will provide additional information for the patient in their decision to accept treatment.

The clinician will still be creating a ClinCheck® treatment plan in the Invisalign® Doctor Site and submitting the case for production.
Invisalign® Outcome Simulator

Access the Invisalign® Outcome Simulator through these sites:
Invisalign® Outcome Simulator - Simulate Outcome Workflow

• Add / Delete / Correct Axis Lines

• Treatment Goals:
  o Extracted or unmovable teeth
  o Allow IPR

• Adjust Outcome
  o Teeth
  o Arches
  o Inter-arch Collision Tool

• Share with Patient

• Send to Treat

• Saving Simulation
Progress Assessment

Open case from Orders or Patients

Correct Axis Lines (optional)
Progress Assessment

Access IDS Database

Analyzing progress assessment
The Progress Assessment tool includes a report that is a color-coded tooth movement table to assist the doctor in making treatment decisions to track the patient’s progress to their ClinCheck® treatment plan.
Customer Advocacy

Contact iTero® Customer Advocacy at 1 800 577 8767.

Order disposable scanner sleeves, articulators, and patient brochures online at the iTero Store (www.store.itero.com) or click on the iTero Store tab in MyAligntech.

Check MyAligntech and Messages for upgrade notifications and information on the monthly iTero Advanced Training Webinars.

Align Technology, Inc.
2560 Orchard Parkway
San Jose, CA 95131
PDF Files

iTero® Element™ Operation Manual

Invisalign® Outcome Simulator Quick Reference Guide

STL Export Instructions

iTero Element Video