suresmile & elemetrix

IDB Tray Protocol
OraMetrix has its headquarters in Richardson, Texas, with offices in Berlin, Germany and Chatswood, Australia. For general information about OraMetrix, visit the OraMetrix website at www.orametrix.com.

Contact us for support

To contact us, please call one of the phone numbers listed below, or email us at customer.care@orametrix.com

<table>
<thead>
<tr>
<th>Region</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>United States &amp; Canada</td>
<td>1 888 672 6387 or 1 972 728 5902</td>
</tr>
<tr>
<td>Europe, Australia, New Zealand, Japan &amp; South Korea</td>
<td>+800 6655 1234</td>
</tr>
<tr>
<td>All other countries</td>
<td>+1 972 728 5902</td>
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Designing and using suresmile/elemetrix IDB Trays

Combine the accuracy of suresmile/elemetrix with customized 3D printing to bond your patients more quickly, easily and precisely.

suresmile's/elemetrix's labial indirect bonding (IDB) trays are a fast, inexpensive IDB solution. IDB trays are based on bracket heights, and are thus suitable for the straight wire method of treatment. The IDB trays offer three-point contact for brackets with no customized pads. The unique tray design has individual caps that are combined into a sectionable tray that enables more predictable delivery. suresmile's/elemetrix's powerful simulation software allows you to visualize straight-wire treatment and highlight potential interferences. You can then create custom-printed trays based on your simulation using a 3D printing process that allows for more accurate bracket positioning than traditional methods.

Your IDB solution includes:

- Bracket placement simulation to view and adjust brackets on a diagnostic model
- 3D simulation to visualize the effects of straight-wire therapy
- Upper and/or lower labial IDB trays shipped to your practice.
- Set of initial suresmile wires (suresmile customers with Standard w/IDB case type only).

Scope of this protocol

This protocol only covers the clinical protocols associated with preparing, inserting and removing IDB trays. Please refer to suresmile’s and elemetrix’s training materials and online help for information about designing and ordering IDB trays.

Videos – IDB clinical procedures

You have three ways to access and watch the videos in this protocol:

Tip: To scan QR tags with your mobile phone or tablet, you need to download a free QR tag reader app from the Apple App Store or Google Play.
IDB tray components

1. **Cap** fits to the individual tooth and holds the bracket in place.
2. **Labial spline** holds the tray together.
3. **Lingual spline** holds the tray together. After bonding, cut off and remove before taking tray out of patient's mouth.
4. **ID tag** serial number for tray.
1. **Connector columns** - Columns have an indented snap-off point for removing the lingual spline after bonding.

2. **Lug** – Use lug as lever to pry cap away from bracket.

3. **Distal indicator** – Indentation on top of cap indicates distal side. Ensures correct placement if cap is removed from the spline and placed independently.

4. **Tooth number** – Imprinted on the cap face. Palmer Notation numbering system used.
Prepare for the IDB appointment

Watch the following video before you get started: Click the link, enter the URL in your web browser, or scan the QR tag with your phone or tablet:

Video – IDB Prep
(http://bcove.me/saey6cr0)

Before you begin the IDB appointment prepare the trays:
1. Find the IDB Tray package, unpack and verify the trays are for the patient.
2. Seat the brackets in the tray.
3. Remove the patient ID labels.
4. Clean the bracket bases with alcohol.
5. Apply the bonding adhesive just before insertion.

Organize your workspace

- Find an uncluttered, well-lit workspace next to a computer running suresmile/elemetrix.
- Open suresmile/elemetrix to the patient’s IDB simulation.
- Have at your workspace:
  - Patient’s IDB trays in their containers
  - Patient’s bracket set or a supply of the brackets being used
  - Tools to insert brackets into the tray (e.g., cotton pliers or pincers, tweezers, scaler, direct bond bracket holder, etc.)
- Recommended but not required:
  - Lighted magnifying glass
  - Wearing latex or plastic gloves is recommended to reduce contamination of bracket bonding surface.

CAUTION

Patient should be bonded within six weeks of scan used for IDB.
**Inspect the tray**

1. Double check the IDB box label before opening to make sure you have the patient’s trays.
2. Remove trays from bubble wrap packaging.
3. Visually inspect the IDB tray or tray segments to ensure nothing is damaged.
4. Compare each tray or tray segment to the IDB simulation in suresmile/elemetrix to make sure it matches the simulation.

**NOTICE**

If the IDB tray is damaged or incorrect, replace in container and immediately contact suresmile/elemetrix Customer Care for a replacement.
Seat brackets in the trays

Seat brackets in the tray:

1. Select a bracket. If self-ligating, make sure the door is firmly shut.
2. Remove any paint or wax markings on the bracket face as these may cause the bracket to seat incorrectly.
3. Insert each bracket carefully using your fingers or a tool of your choice. The order or sequence you use to seat the brackets is up to you.
4. Seat brackets for the U/L 1s-5s by inserting into the cap and then gently pushing straight down.

5. Seat brackets for the molars beginning with the sharp edge of the bracket. Slightly angle the funnel (mesial) side of the bracket into the jig bracket a bit as shown here.
6. Check the bracket seatings under magnification and compare the target of the 3D IDB tray simulation in suresmile/elemetrix against the actual position of the bracket you just seated.

Brackets should fit snugly against the cap.

Tip: When you finish seating all brackets in a tray, check that all brackets are still snugly seated.
7. When you complete seating all brackets in a tray, put the tray back into its container.
8. Seat the brackets for the other tray using the steps just described.

**IDB tray hygiene**

suresmile/elemetrix IDB trays are not sterile when delivered. Disinfect the trays according to the hygienic protocol of your practice before placing in the patient’s mouth. suresmile/elemetrix IDB trays are compatible with alcohol.

The tray material is biocompatible and is rated for up to 24 hours contact with mucosal membrane.

<table>
<thead>
<tr>
<th>CAUTION</th>
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<tbody>
<tr>
<td>OraMetrix only guarantees compatibility of its suresmile/elemetrix IDB trays with isopropyl alcohol.</td>
</tr>
<tr>
<td>Do not sterilize the trays in an autoclave.</td>
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<tr>
<td>If you use acetone to clean the bracket bases, make sure that no acetone comes in contact with the plastic tray.</td>
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</table>
Tips for seating brackets correctly

Most brackets are in the correct position when the bracket base is parallel to the body of the cap.

Some cap bases for molar brackets (U/L 7) have additional protrusions to support the brackets when fully seated.

In most cases the edge of the bracket is flush with the edge of the cap.

Check the seated brackets against the simulation in suresmile/elemetrix to verify fit.
IDB Appointment

Chairside setup

- Open suresmile/elemetrix to the patient’s IDB simulation.
- Make sure you have the following items chairside:
  - **Patient’s IDB trays** in their package
  - **Bracket adhesive** (e.g., Transbond™ XT Light Cure Adhesive)
  - **Use the tip of your primer/sealant** dispenser (e.g., Opal® Seal™) to clean excess adhesive “flash.” You can also use a microbrush.
  - **Instruments** to insert tray (e.g., cotton pliers or pincers, tweezers, scaler, direct bond bracket holder, etc.)
  - **Curing light**. Use of a small light cure tip (6-8 mm) is recommended (e.g., an American Orthodontics BlueRay 3 Microflash LED Curing Light).

<table>
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<tr>
<td>Make sure that only alcohol-based cleaning fluid comes in contact with the plastic tray.</td>
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<tr>
<td>When cleaning the bracket base or applying adhesive, use only mesial-distal strokes. Otherwise, you risk dislodging the bracket from the cap.</td>
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</table>

Typical IDB chairside equipment and supplies
Suggested IDB Protocol Using Light-Curing Adhesive

Protocol courtesy of:
Dr Edward Y Lin, DDS, MS, & Angela Berna, Clinical Coordinator
Orthodontic Specialists of Green Bay (OSGB)
Apple Creek Orthodontics of Appleton (ACO)

1. Trim the IDB tray labels: Use ligature or wire cutters to snip off the tray ID tag.

2. Clean each bracket pad with alcohol and let dry.

3. Apply bracket adhesive to each pad.

4. Use only mesial-distal strokes to clean the bracket base or apply adhesive.
5. **Apply adhesive:** Use primer/sealant (e.g., Opal Seal) to push adhesive into pad mesh. Cover the tray with a light filter, place under the IDB shipping container box, or cover in some other way to block light and prevent premature curing.

6. **Prophy all teeth.**

7. **Rinse and dry well.**

8. **Apply Etch. Leave on for 30 seconds.**
9. Rinse and dry well second time. Teeth should appear chalky.

10. Use tooth dryer 3-5 seconds per tooth.

11. Apply a thin layer of primer/sealant (e.g., Opal Seal) on the entire tooth surface.

12. Apply light air to thin out the primer/sealant.
13. **Seat Tray**: Apply firm pressure on the occlusal surface to ensure tray is completely seated. Push labially and buccally to ensure bracket pad is pressed into the tooth surface well.

*Video – Insert the lower tray*  
([http://bcove.me/jq2u6l0](http://bcove.me/jq2u6l0))

14. Using an explorer or another favorite adhesive removal instrument, clean up any excess glue from around the brackets.

*Video – Insert the upper tray*  
([http://bcove.me/pe4qypbl](http://bcove.me/pe4qypbl))
15. **Seat Tray**: Use the curing light to cure the brackets on the labial/buccal surface and on the gingival surface. Once the tray is removed cure each bracket again. Make sure you meet or exceed your light manufacturer’s recommendations for curing time per tooth.

**Tip**: Use a light with a smaller tip (e.g., an American Orthodontics BlueRay 3 Microflash LED Curing Light).

16. **Seat Tray**: Hold the tray in position while curing the brackets.

[Video](http://bcove.me/9104oiaj) – Hold lower tray in position while curing

[Video](http://bcove.me/3scnnfzw) – Hold upper tray in position while curing
17. **Remove Tray**: Use tip of scaler to leverage lingual spline and release from the seating lug.

![Video – Remove lower spline and tray](http://bcove.me/cu9rijqww)

18. **Remove Tray**: Remove the lower tray.

![Video – Gently remove the lower tray](http://bcove.me/xnx3dmi9)

![Video – Remove upper spline and tray](http://bcove.me/c0wofx53)

![Video – Gently remove the upper tray](http://bcove.me/unp43o09)

![Video – Use scaler to remove lingual spline](http://bcove.me/xaopy234)
19. **Remove Tray**: Lingual spline removed from upper tray

20. **Remove Tray**: Lingual spline removed from lower left segment.

21. **Remove Tray**: Lingual spline removed from lower right segment.

22. **Remove Tray**: Release each cap from the bracket as shown. Use the small lever on top of the cap. For the molars you can also use the small cavity as shown. Swivel each cap as shown to release the bracket.

[Video – Releasing the IDB cap and tray](http://bcove.me/u678w51i)
23. **Remove Tray**: Remove tray by gently pulling occlusally.

24. **Remove Tray**: Remove tray by gently pulling occlusally.

**Completed upper arch**

**Completed lower arch**
Rebonding brackets

Always save the patient’s IDB tray in case rebonding is required at a later time. If teeth need rebonding, snip out the cap or segment needed, prepare the teeth per your practice’s protocol, and rebond.

Environmental and storage conditions

The suresmile/elemetrix IDB trays are suitable for use in a standard office environment.

<table>
<thead>
<tr>
<th>Environmental Parameters</th>
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<tr>
<td><strong>Temperature and daylight</strong></td>
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**NOTICE**

Store the trays in their original container or in a dark environment. Direct sunlight can damage the tray.

Safety

Symbols used on product labels

- **Non sterile**

- **Consult instructions before use**
  This symbol advises the reader to consult the operating instructions for information needed for the proper use of the device.

- **Single patient use only**
Symbols used in this manual

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>![Warning Symbol]</td>
<td><strong>WARNING</strong> Indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td>![Caution Symbol]</td>
<td><strong>CAUTION</strong> Indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury, product or property damage. It may also be used to alert against unsafe practices.</td>
</tr>
<tr>
<td>![Notice Symbol]</td>
<td><strong>NOTICE</strong> Indicates important information that is required to use the system properly.</td>
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Safety precautions

The suresmile/elemetrix trays are classified as medical devices. The user bears legal responsibility for the use of the IDB trays. Read this manual before use.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>![Notice Symbol]</td>
<td><strong>NOTICE</strong> Caution: United States federal law restricts the use of this device to or by the order of a dentist. OraMetrix shall NOT be responsible for any use of the trays other than for their intended use. OraMetrix does not determine patient care. OraMetrix provides therapeutics as directed by the doctor.</td>
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Operational

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>![Warning Symbol]</td>
<td><strong>WARNING</strong> Do not use the trays on patients with uncontrolled biting behavior.</td>
</tr>
<tr>
<td>![Warning Symbol]</td>
<td><strong>WARNING</strong> Make sure that no trays, tray parts, or brackets fall inside the patient mouth.</td>
</tr>
<tr>
<td>![Caution Symbol]</td>
<td><strong>CAUTION</strong> Each IDB tray is a customized device for a particular patient and should be handled with care.</td>
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Notes