

MY ACCOUNT:

COLLABORATIVE 3D REVIEW

NAVIGATION & CONTROLS

Mouse

- **Move:** Right-click drag
- **Rotate:** Middle-click drag or Ctrl + right-click
- **Zoom:** Scroll wheel

Trackpad (Mac)

- **Move:** Two-finger drag
 - **Rotate:** Two-finger + hold Ctrl
 - **Zoom:** Two-finger up/down (no click)
- Magic Mouse:** enable right-click in macOS settings first.

Touch Screen

- **Move:** Single drag
- **Rotate:** Double parallel drag
- **Zoom:** Pinch

Widgets

- Drag anywhere in the 3D scene
- Collapse, expand, or resize corners
- Use the **Widget Bar** (sidebar) to organize
- Position remembered per case & device

OBJECTS & TOOTH CHART | Availability of objects depends on the case type, structure, and application settings.

Standard Case Objects

Object	Description	Shortcut / Action
Activate Restoration	Sets the active restoration for all tools	Left-click tooth
Bite Scan	Scanner-provided articulation position reference	Click Bite in chart · Alt+B
Cement Spacer	Space between inner restoration and prep. (Dark blue.) For implants: screw path & insert surface.	Left-click spacer · Ctrl+Y · Shift+Y (all)
Coping (Substructure)	Split-file substructure layer	Select in visibility widget
Crown (Restoration Overlay)	The full restoration overlay	Left-click overlay · Ctrl+R
Jaw	Untrimmed scan before any adjustments	Left-click Original · Ctrl+U / Ctrl+L
Pre-Treatment Scan	Reference scan of the pre-treatment state	Left-click grey shadow · Alt+D / Alt+A
Printable Model	Watertight model for trying the restoration	Left-click blue area · Shift+D / Shift+A
Reduction Coping	Guide created when auto-reduction is applied to the prep	Left-click yellow line
Face Scan	3D patient face model for visual smile design	Shift+F (Face) · Shift+R (retracted)

Implant-Specific Objects

Object	Description
Implant Reference Scan	Position and orientation information provided by the doctor
Implant Parts	System/platform-specific components showing shape, size, location, and position

For implant cases, cement spacer represents the screw path and insert surface.

Workflow-Specific Objects

Object	Workflow	Shortcut
Diagnostic Scan	Diagnostic-Provisional only — fused model from diagnostic designs + jaw scan	Shift+U
Guide Scan	Virtual Prep workflow — adjusted scan before creating preps as a guide	Alt+U
Matrix	Provisional workflow — 3D-printable guide to correct smile design	Ctrl+Shift+U / Ctrl+Shift+L
Tissue Stent	Provisional workflow — 3D-printable guide for tissue adjustment	Alt+Shift+U / Alt+Shift+L

COMMON SETTINGS WIDGET

Changes of Original Scan

- Check **Show Changes of Original Scan** to display a color map of all adjustments
- Check **Distance from Original Scan** to see hover measurements (mm) over any adjusted area

Bite Distance Coloring

- Shows penetration between upper and lower jaw scans in mm
 - Hover to see live values anywhere on the scan
 - **Red** – penetrating (negative mm)
 - **Green** – closed, not penetrating (positive mm)
- Acceptable penetration threshold: **0.15 mm**

Original Bite

- Splits the screen to compare original vs. adjusted articulation side-by-side

Clearance

- Shows the minimum space between the highest point of the prep and the highest point of the opposing scan
- Values displayed in mm on the 3D model

Insertion Direction

- Dark blue arrow on the prep shows the calculated seating path for the crown

Occlusal & Buccal Directions

- Blue & red arrows provide directional reference used in generating the design proposal

Margin Lines & Open Margins

- Toggle **Margin Line(s)** to see the prep margin
- Areas where the cement space has no direct visibility path to the top of the prep are flagged as **open margins**
- Open areas appear **red** on the margin line with a mm flag
- Check **Show All Open Margins** to review every restoration in multi-unit cases simultaneously

Open margins are expected in some undercut geometries. This toggle does not affect the margin undercut detection warning.

Cement Spaces

- Use **Show All / Hide All** buttons to bulk-toggle cement spacers in multi-unit cases
- Individual control: left-click the spacer in the 3D view

Ctrl + Y active restoration

Shift + Y all cement spacers

CONTACTS WIDGET

Contact Types

- **Occlusal** – distance from the highest point of the restoration (occlusal) to the opposing tooth/restoration
- **Mesial** – distance from the most mesial end of the restoration to the adjacent tooth's distal surface
- **Distal** – distance from the most distal end of the restoration to the adjacent tooth's mesial surface

Click each contact type in the widget to toggle its display on/off.

Color Map & Parameters

Values shown in μm on the 3D model. Parameters come from material settings.

- **Green** – within preset tolerance (normal)
- **Blue** – below tolerance (open contact)
- **Red** – above tolerance (tight/high)
- **No color** → **Dark Blue** – acceptable to ideal distance (color map view)

Hover over the restoration to see live distance measurements (μm) to the opposing scan. Check **"Show contacts for all teeth"** to review the full arch in multi-unit cases.

ESTHETIC REVIEW — FACE SCAN & SMILE DESIGN

Face Scan

- 3D model of the patient's face – design can be aligned on it for in-context evaluation
- Two face scan objects available: **Face Scan** and **Retracted Face Scan**
- Show/Hide via the Visibility Widget
- Hide the **mouth cutout** area to expose restorations and scans clearly
- Adjust **brightness, intensity, and contrast** sliders to optimize visibility
- Toggle **Face Planes** checkbox to show/hide reference planes

Shift + F Face Scan **Shift + R** Retracted

Smile Design Preview

- 1 Open the **Smile Design** widget
- 2 Click **View** – available smile design screenshots open in a preview window
- 3 Use **Zoom** and **Rotate** to inspect from any angle
- 4 Click **Download** to save the file for your records

Perfect for anterior and esthetic cases. Align the design to the patient's face before committing – see exactly how it looks in context.

CROSS SECTION — DEEP INSPECTION TOOL

Setting Up the Plane

- 1 Click **Cross Section** in the right toolbar – or press **X**
- 2 Left-click drag to **draw a line** on the area you want to cut
- 3 **Move the plane:** drag the plane edge, or use the Distance slider
- 4 **Tilt the plane:** grab and drag the dots on the plane's edge
- 5 **Change axis direction:** grab and move with left-click — the 2D map rotates accordingly
- 6 Check **Show Axes** to toggle axis visibility

Inspecting & Measuring

- 1 Click **Cut With Plane** to view the sectioned geometry on the 3D model
- 2 Click **Show Filling** to fill solid areas in the 3D cross section view
- 3 Click **Flip Normal** to switch which side of the model is displayed
- 4 The **2D Map** shows all visible layers in individual colors — find the legend in the top-right of the 2D window
- 5 Zoom the 2D map by scrolling; move it by right-click dragging

Measuring: Shift+Click to add a point · Ctrl+Click to remove · values shown in mm on both 2D and 3D views · Click **Reset Measurement** to clear. Use cross section to verify material thickness, internal fit, and hidden geometry.

ADDITIONAL FEATURES

Scan Color

CloudPoint can display color texture for supported scan formats:

- **PLY** – color information shown when available
- **OBJ** – color information shown when available; requires two additional files with the same name:
 - .JPG (Texture attachment type) and
 - .MTL (Misc attachment type)

Full Screen Mode

- Available on desktop only
- Click the full screen icon in the toolbar to maximize the 3D workspace

Mobile Device View

- Automatically optimizes the screen and widgets for small touch screens
- Widget bar, visibility controls, contacts, and smile design are all accessible in mobile layout
- Use touch controls: single drag (move), double parallel drag (rotate), pinch (zoom)

KEYBOARD SHORTCUTS

Views & Visibility

Upper jaw	U
Lower jaw	L
Prep jaw show/hide	Ctrl D
Prep jaw transparent	Ctrl Shift D
Opposing jaw	Ctrl A
Upper original scan	Ctrl U
Lower original scan	Ctrl L

Restorations

Crown / Restoration overlay	Ctrl R
Cement spacer (active)	Ctrl Y
All cement spacers	Shift Y
Printable model – prep	Shift D
Printable model – antagonist	Shift A

Esthetics & Tools

Face Scan	Shift F
Retracted Face Scan	Shift R
Bite Scan	Alt B
Cross Section tool	X

Workflow-Specific

Diagnostic Scan	Shift U
Guide Scan	Alt U
Pre-treatment – prep jaw	Alt D
Pre-treatment – opposing	Alt A
Matrix upper / lower	Ctrl + Shift + U / Ctrl + Shift + L
Tissue stent upper / lower	Ctrl + Shift + U / Ctrl + Shift + L

PRE-APPROVAL CHECKLIST

Run through each item before clicking Approve. Each takes under a minute.

- ✓ **Bite & Occlusion** – Enable Bite Distance Coloring. Green = good contact (≤ 0.15 mm). Investigate any red penetration areas.
- ✓ **Contacts** – Review Occlusal, Mesial, and Distal. Green = within tolerance. Check "Show contacts for all teeth" for multi-unit cases.
- ✓ **Clearance** – Confirm sufficient material thickness between prep and opposing scan.
- ✓ **Margins** – Margin line visible and complete. Review any red open-margin flags and note their values.
- ✓ **Insertion Direction** – Confirm the blue arrow seating path looks appropriate for the prep anatomy.
- ✓ **Esthetics (anterior cases)** – Face scan aligned; smile design photos reviewed and match treatment goals.
- ✓ **Cross Section (if needed)** – Material thickness and internal fit confirmed for any case where geometry requires verification.
- ✓ **Notes added** – Any modification requests or questions communicated to the technician via case notes in *My Account*.

Need changes? Message the technician directly inside *My Account* – no calls required. Once all checks pass, click **APPROVE**.