

EVISMART COOKBOOK

Digital Partial Dentures Made Easy

Simplify your RPD protocol in 3 Steps.



Introduction

Missing teeth compromise patient satisfaction and quality of life.

Immediate digital partial dentures offer a precise, efficient, and superior solution, revolutionizing tooth replacement and seamlessly integrating into your digital workflow, restoring function, aesthetics, and confidence for patients suffering from tooth loss due to decay, injury, or gum disease.

However, many practices hesitate due to the perceived learning curve of digital workflows.

The good news is, the right tools and streamlined approach, you can confidently 3D print for both immediate and long-term partial dentures in-house.

This guide also contains all the information you need to train your staff.

Let's break down the digital denture workflow into three simple steps:

1. Gather information

2. Submit cases

3. Fabrication

Watch on instagram reels Now

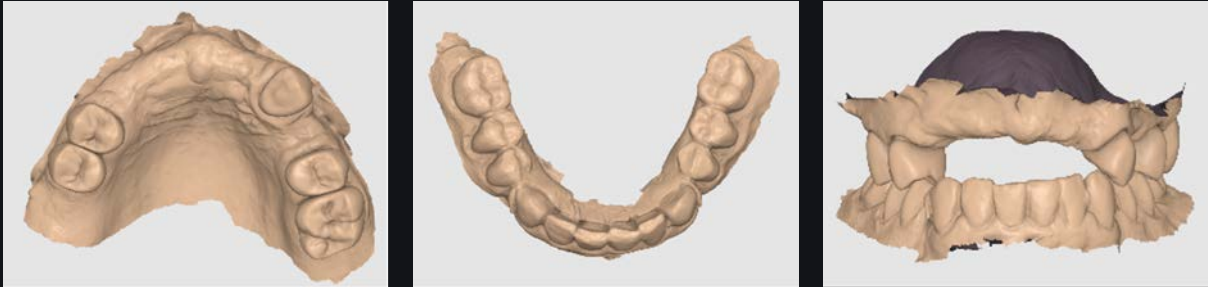
<https://www.instagram.com/reel/C5oXHBaJHWm/>

STEP 01

Gather Information During the Patient Visit (Record Appointment)

1.1 Capture Intraoral Scans

Utilize an intraoral scanner to create a 3D digital model of your patient's oral anatomy. Three scans are typically required:



1. **Partial Arch:** A complete scan of the arch where the denture will rest.
2. **Opposing Arch:** A complete scan of the opposing arch for proper occlusion.
3. **Bite Registration:** Capture the patient's bite relationship to ensure proper occlusion.

Note

Ensure the scan clearly captures all relevant anatomy, including any undercuts or bony prominences.

1.2 Compile Your Patient's Treatment Plan Information

After completing your patient record appointment, you will need to gather and organize essential details for the treatment plan. Follow these steps to ensure you have all the necessary information.

1. Collect Patient Demographics:

- Patient's name
- Contact information
- Date of birth

2. Document the Chief Complaint:

- Thoroughly understand the patient's primary reason for seeking a digital partial denture (e.g., missing teeth, difficulty chewing, Aesthetic dissatisfaction).

3. Summarize Diagnostic Findings:

Document relevant findings from the intraoral scan, such as the number and location of missing teeth, the condition of remaining teeth and supporting structures, and any areas requiring adjustments.

4. Record Treatment Goals:

Document the patient's specific expectations for the digital partial denture treatment, which may include:

- Improved aesthetics (e.g., tooth shape, size, color, natural appearance)
- Restored function (e.g., chewing ability, speech, comfort)
- Enhanced stability and retention
- Increased confidence and improved quality of life

Discuss Long-Term Goals:

Engage in a conversation with the patient to ensure that the digital partial denture treatment aligns with their overall oral health goals, addressing any concerns about maintenance, potential future adjustments, and alternative treatment options.

Once you have compiled all this information, you are ready to submit the case for design to EviSmart.

STEP 02

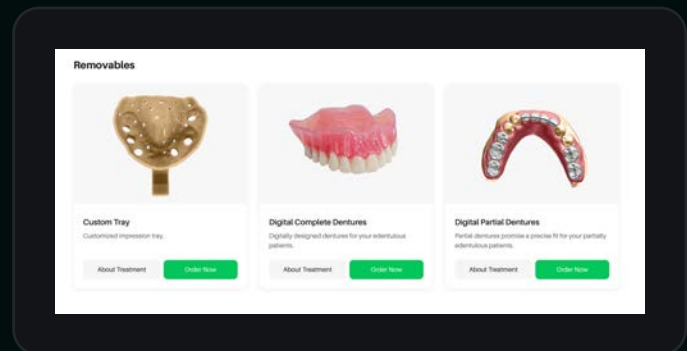
Submitting Your Case To EviSmart Hub

2.1 Log in to EviSmart & Order

- To submit your case to EviSmart, please log in to your account at EviSmart Hub.
- If you do not have an account yet, click on "Get Started" and select "Create Account."

Ordering Process

- Once logged in, browse the list of products on the Hub and locate **"Digital Partial Dentures"**
- Click on "Order Now" to proceed with your order.



2.2 Upload case Information

This guided ordering form ensures that the vision of both the patient and the doctor is precisely communicated to our design team. Follow these steps to complete the form:

Add Patient Information:

Fill in your practice name, email address (optional), patient's last name, first name, and date of birth (optional).

- You can choose to rush this case to get your designs back as soon as possible.

A screenshot of the 'Patient Details' form in the EviSmart Hub. The form is titled 'Patient Details' and includes a subtitle 'Fill your patient's basic information or select from existing patient'. It contains several input fields: 'Practice' (a dropdown menu with 'Evident Dental Lab' selected), 'Email Address (Optional)' (a text field), 'Last Name' (a text field with a placeholder 'Type in Patient Last Name'), 'First Name' (a text field with a placeholder 'Type in Patient First Name'), and 'Birthday (Optional)' (a date picker field with a placeholder 'mm/dd/yyyy').

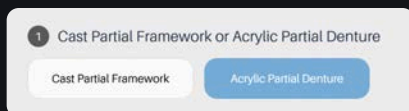
Please follow these instructions to ensure a smooth and efficient case submission process:

Case Submission Instructions for Digital Partial Dentures

Please follow these instructions to ensure accurate and efficient processing of your digital partial denture case:

1. Case Type:

Select either "Cast Partial Framework" or "Acrylic Partial Denture" to indicate the type of partial denture you are requesting.

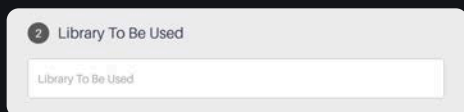


1 Cast Partial Framework or Acrylic Partial Denture

Cast Partial Framework Acrylic Partial Denture

2. Library To Be Used:

Specify the name of the tooth library you prefer to use for the denture teeth (e.g., Vita Physiodens, Candulor, etc.).



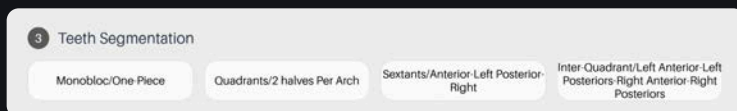
2 Library To Be Used

Library To Be Used

3. Teeth Segmentation:

Choose the desired segmentation option for the denture teeth:

- Monobloc/One-Piece: All denture teeth in a single unit.
- Quadrants (2 halves per arch): Denture teeth divided into two halves for each arch (upper and lower).
- Sextants (Anterior/Left Posterior/Right Posterior): Denture teeth divided into three sections per arch.
- Inter-Quadrant (Left Anterior-Left Posteriors-Right Anterior-Right Posteriors): Denture teeth divided into four sections per arch.



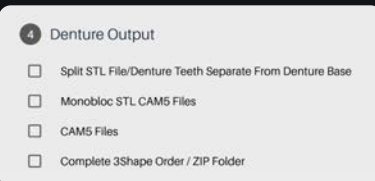
3 Teeth Segmentation

Monobloc/One Piece Quadrants/2 halves Per Arch Sextants/Anterior-Left Posterior-Right Inter Quadrant/Left Anterior Left Posteriors-Right Anterior-Right Posteriors

4. Denture Output:

Select the desired output format for the digital denture files:

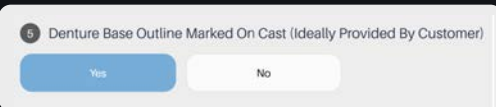
- Split STL File (Denture Teeth Separate From Denture Base): Separate STL files for the denture teeth and base.
- Monobloc STL CAM5 Files: A single STL file for the entire denture, compatible with CAM5 software.
- CAM5 Files: Individual CAM5 files for each segmented section of the denture.
- Complete 3Shape Order / ZIP Folder: A compressed ZIP folder containing all relevant files for the case.



A screenshot of a form titled "4 Denture Output". It contains four checkboxes, each with a corresponding label: "Split STL File/Denture Teeth Separate From Denture Base", "Monobloc STL CAM5 Files", "CAM5 Files", and "Complete 3Shape Order / ZIP Folder".

5. Denture Base Outline Marked On Cast:

Indicate whether the denture base outline has been marked on the cast by selecting "Yes" or "No." (Ideally, this should be provided by the customer.)



A screenshot of a form titled "5 Denture Base Outline Marked On Cast (Ideally Provided By Customer)". It features two buttons: a blue "Yes" button and a white "No" button.

6. Support Bar:

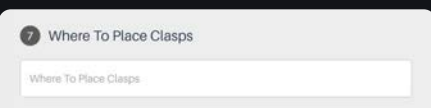
Indicate whether a support bar is required by selecting "Yes" or "No."



A screenshot of a form titled "6 Support Bar". It features two buttons: a blue "Yes" button and a white "No" button.

7. Clasp Placement:

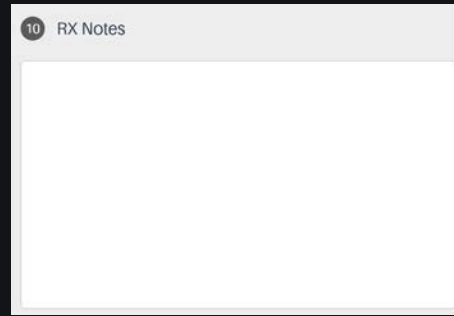
Specify the desired location for clasp placement (e.g., tooth numbers, type of clasps).



A screenshot of a form titled "7 Where To Place Clasps". It contains a text input field with the placeholder text "Where To Place Clasps".

8. RX Notes:

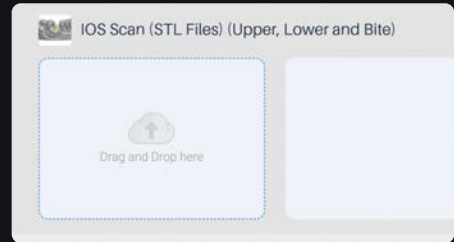
- Include any additional information or special requests regarding the case.
- If any specific design preferences or modifications are needed, please describe them here.

A screenshot of a form titled "10 RX Notes". It features a large, empty white rectangular area for text input, with a light gray border and a small icon in the top left corner.

Upload Required Files:

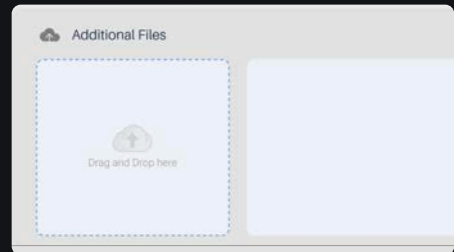
Intraoral Scans (STL or PLY files):

- Upper Arch Scan
- Lower Arch Scan
- Bite Registration Scan

A screenshot of a form titled "IOS Scan (STL Files) (Upper, Lower and Bite)". It contains two large, empty white rectangular areas for file uploads, each with a dashed border and a "Drag and Drop here" label.

Additional Files (Optional):

- **Photos:** Upload any relevant photographs, such as retracted and occlusal views
- **Other:** If you have any other files that you believe are relevant to the case (e.g., treatment plans, previous denture designs), please upload them here.

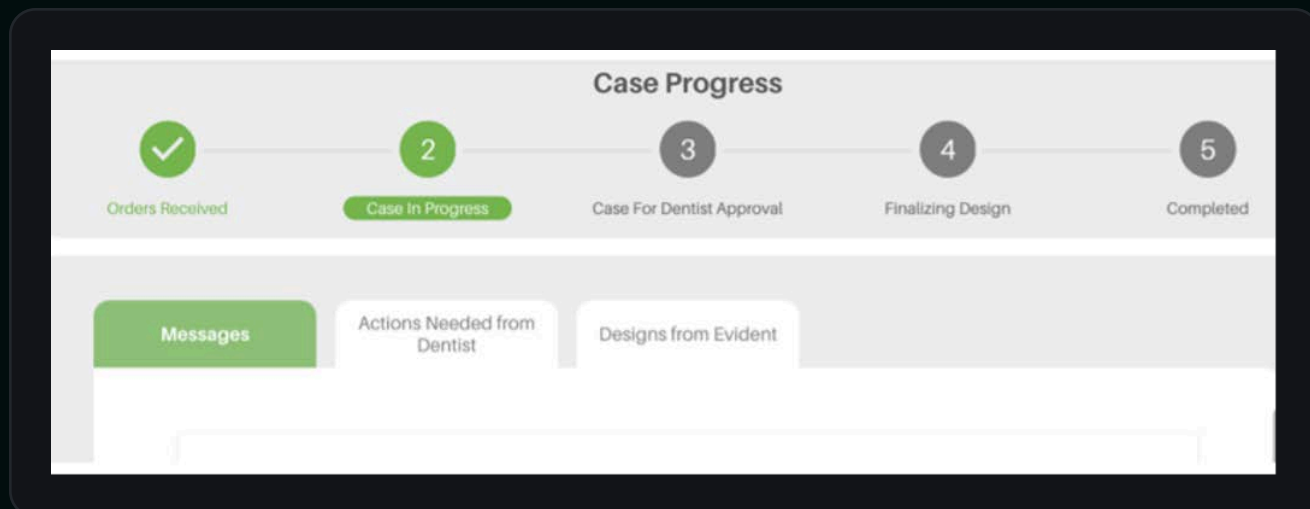
A screenshot of a form titled "Additional Files". It contains two large, empty white rectangular areas for file uploads, each with a dashed border and a "Drag and Drop here" label.

Review and Submit

Ensure all information is accurately filled out and all required files are uploaded. Click 'Proceed' to submit the form.

2.5 Track Progress and Communicating with Your Designer

To ensure a seamless experience and stay informed about the progress of your designs, you can track and communicate with your designer through the Case Management section. Here's how:



Review Case Progress: Access the Case Management section to review the progress of your case at any time. Stay updated on the current status and any actions taken by the design team.

Messages Your Designer: If you have questions or need to share details, easily send messages to your designer in the Case Management section.

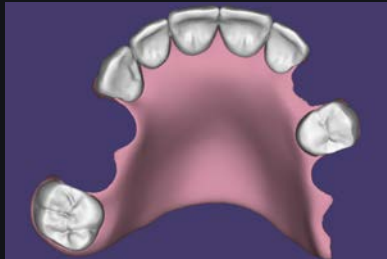
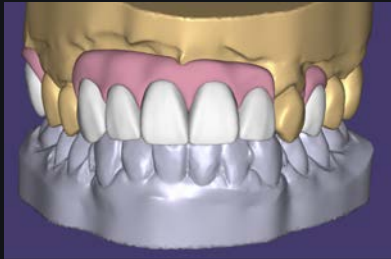
Review and Approve Your Case: Review your selected CAD files using the preview files (HTML viewer). This feature allows you to see the designs in detail and make any necessary adjustments or approvals before finalizing the case. Once the design meets your requirements, you can approve and download the file.

By using these features, you can efficiently manage your cases, ensure clear communication with your designer, and approve designs with confidence.

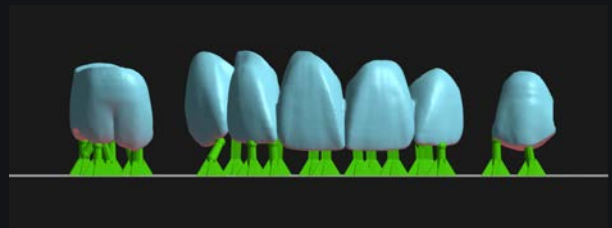
2.6 Your Case is Complete!

Once complete, you will receive the following files:

- HTML preview viewer for STL design files, including appended scan data



- 3D printable file(nested)



STEP 03

Fabricate Your design!

3.1 Download nested files from EviSmart

After your case is complete, you can download the print-ready design files by selecting your case in case management tab.

3.2 It's Time To 3D Print

Fabricate your design using your in-house 3D printing workflow.

Follow three steps:

1. 3D Print your design.
2. Clean the 3D printed design to remove any residual resins
3. **Cure** it to finalize its durability.



For detailed process and workflow instructions specific to your 3D printer model and resin, please contact your 3D printer manufacturer's support team

Congratulations! 🎉

The Partial Denture Is Now Ready!

Contact Us

Need Help?

If you have any questions about the process, feel free to email us at akang@evidentdigital.com or call us at +1 (877) 909 7770.

To further streamline your workflow, we can help by coordinating fabrication. Here's how we can assist:

Invite your existing lab

You can invite your preferred lab by choosing the option in the top right corner of the EviSmart Hub screen. We will help coordinate the fabrication process with them.

Ask us for a preferred lab partner:

Alternatively, your account manager can suggest an EvidSmart preferred lab partner for a seamless experience.

You are now ready to 3D print crown and bridge like a pro.

Get Started Now