

TPC 3D



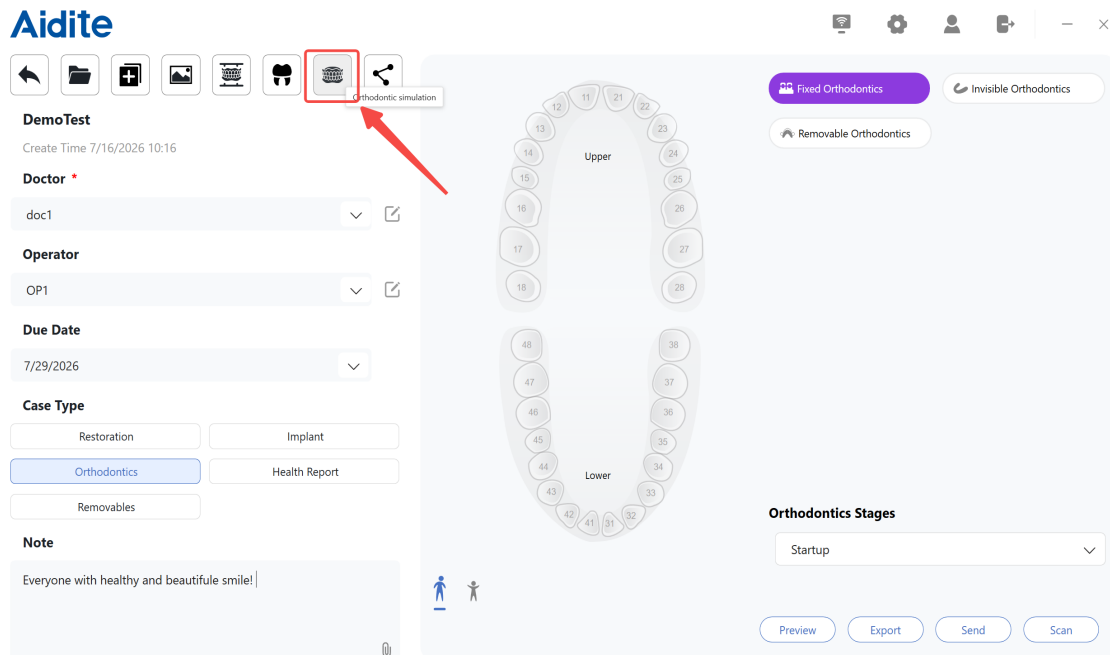
Orthodontic Simulation

Intraoral Scanner User Guide

Everyone with a healthy and beautiful smile

1. Orthodontic simulation function entrance.

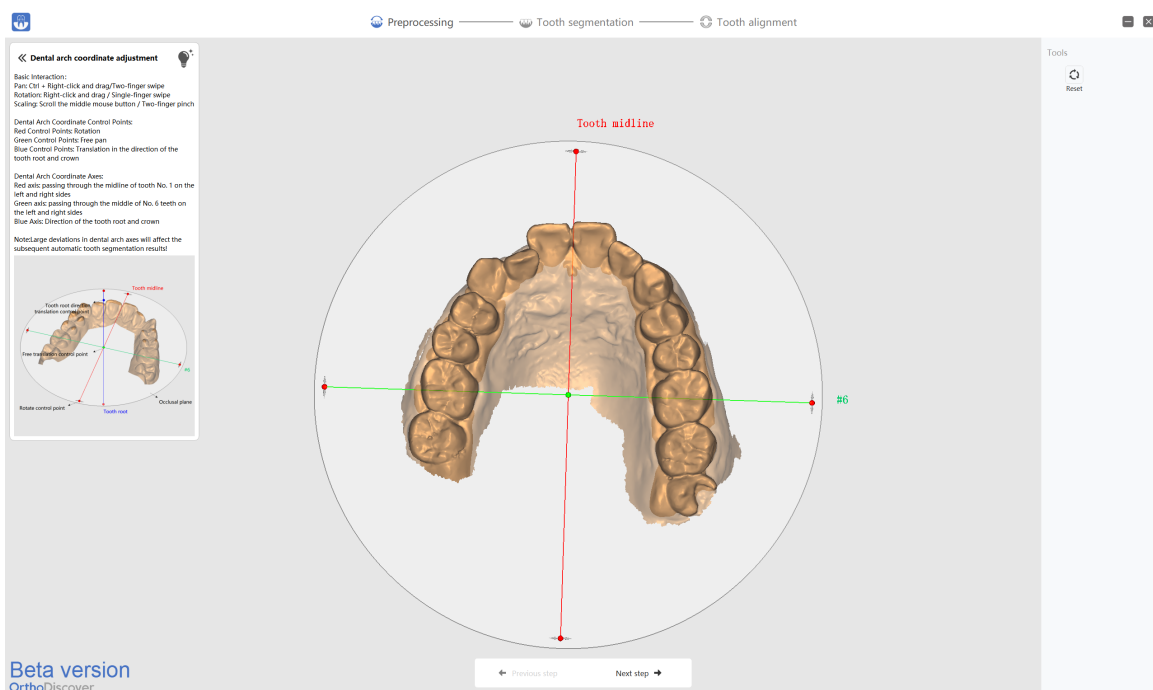
Enter a scanned orthodontic case. Then click orthodontic simulation.

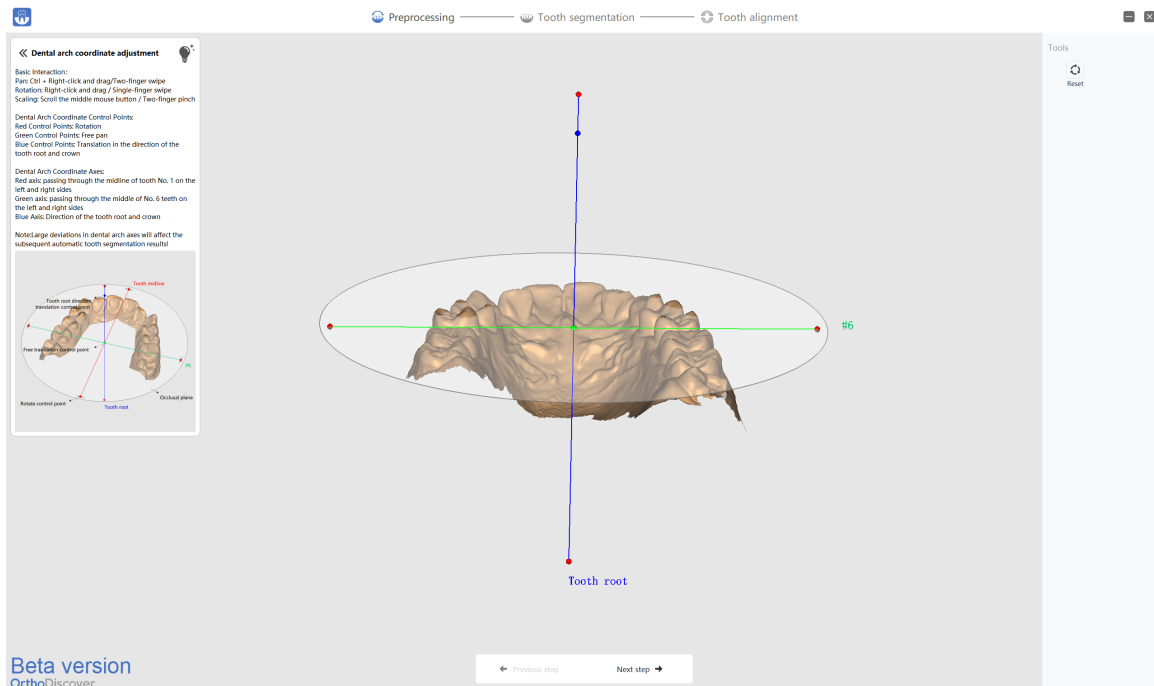


Note: Orthodontic simulation function requires additional download.

2. Preprocessing stage

Adjust the jaw coordinate axis for both upper jaw and lower jaw, and adjust the endpoint direction after selecting the axis . • Adjust the plane to be parallel to the tips on both sides of the 6th tooth • The blue axis needs to point towards the tooth root direction • The green axis needs to pass through both 6th teeth • The red axis needs to pass through the middle of both 1st teeth



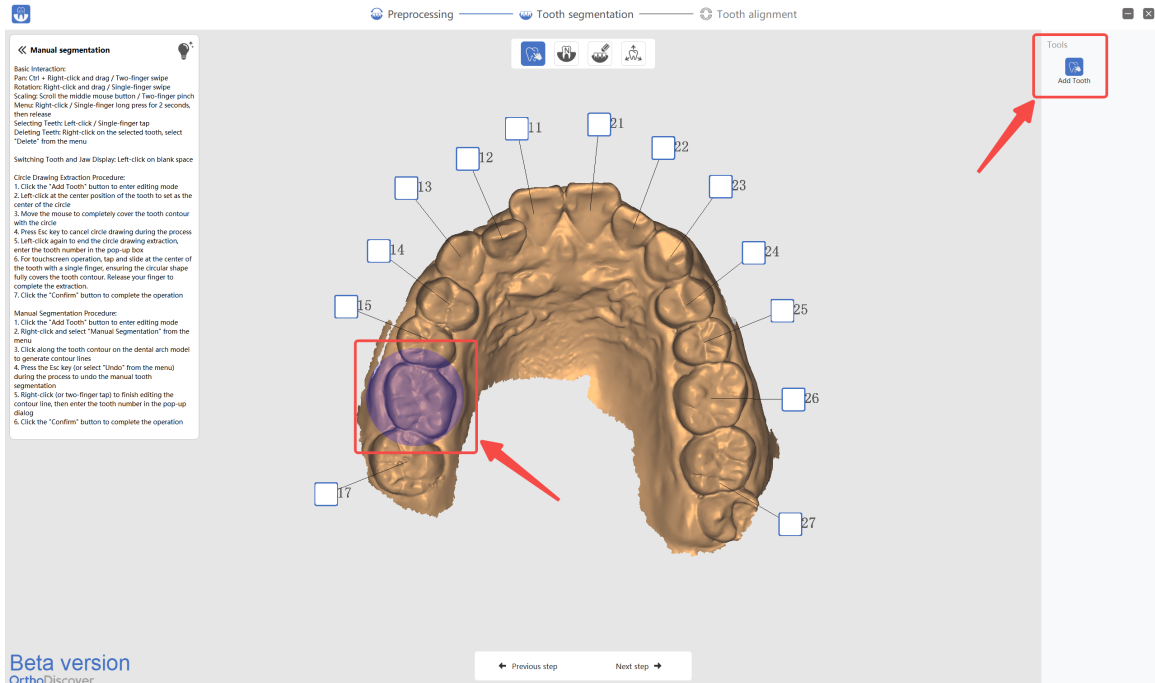
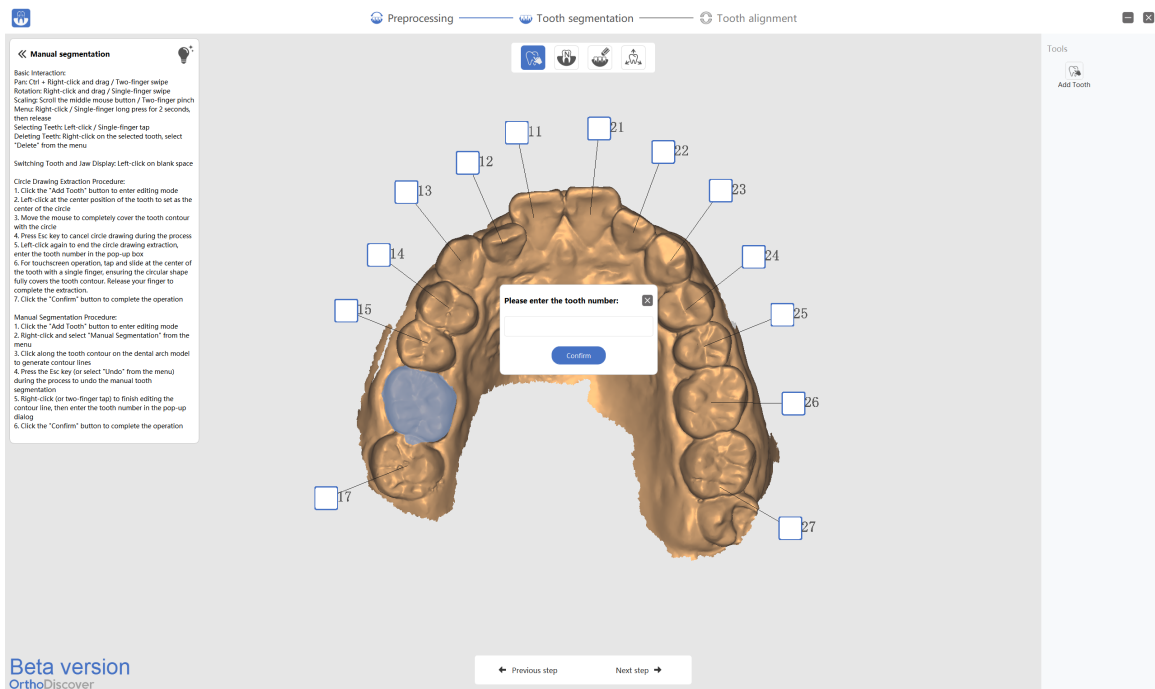


3. Tooth segmentation stage

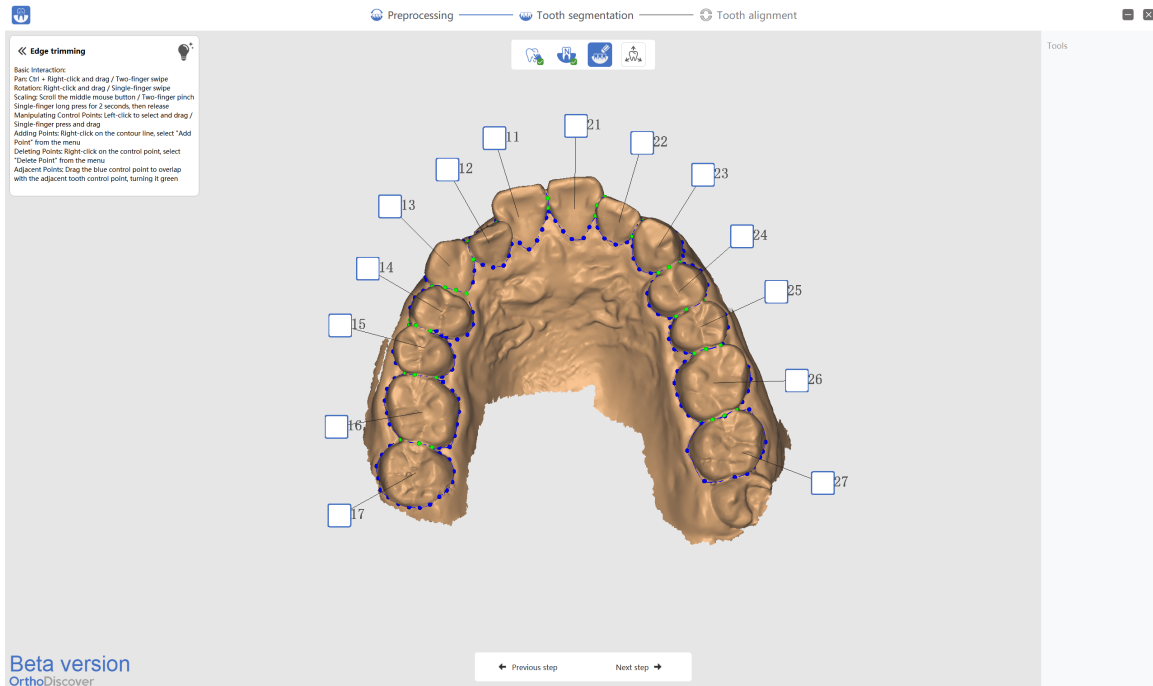
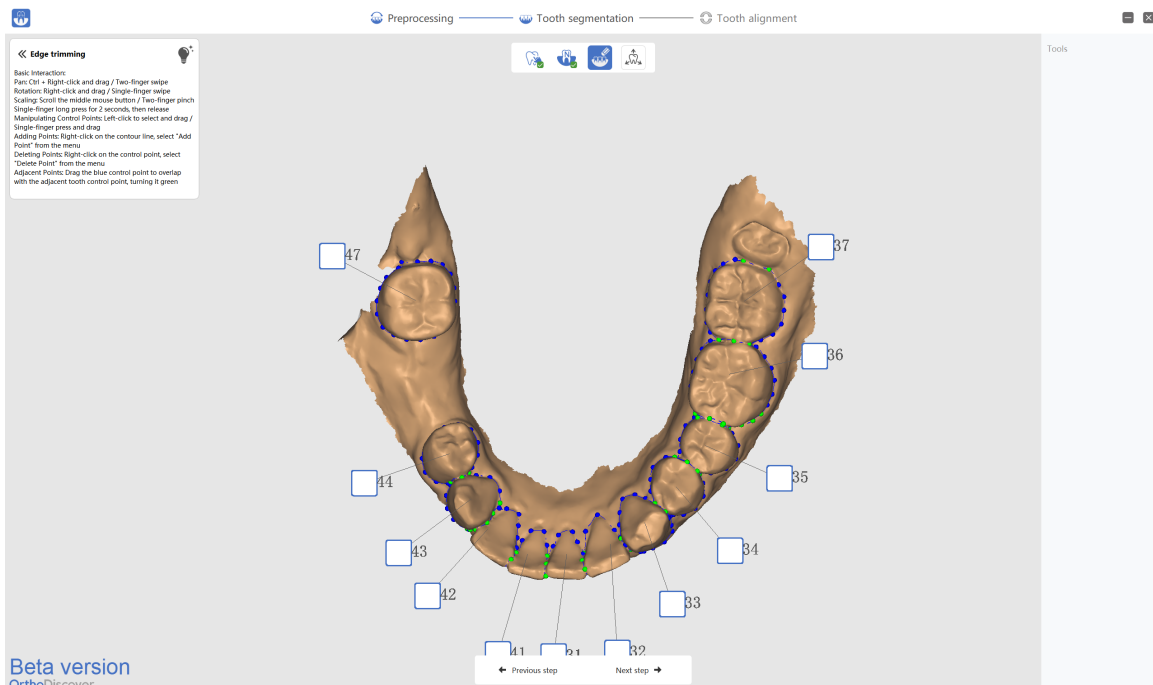
Manual segmentation The software will automatically perform tooth segmentation. Please check the automatic tooth segmentation status and tooth position identification. In case of any errors, manual adjustment should be conducted. Left click to switch between the tooth segmentation results and the actual tooth model. • **Tooth position adjustment** Select the tooth and right click to modify the tooth position information.



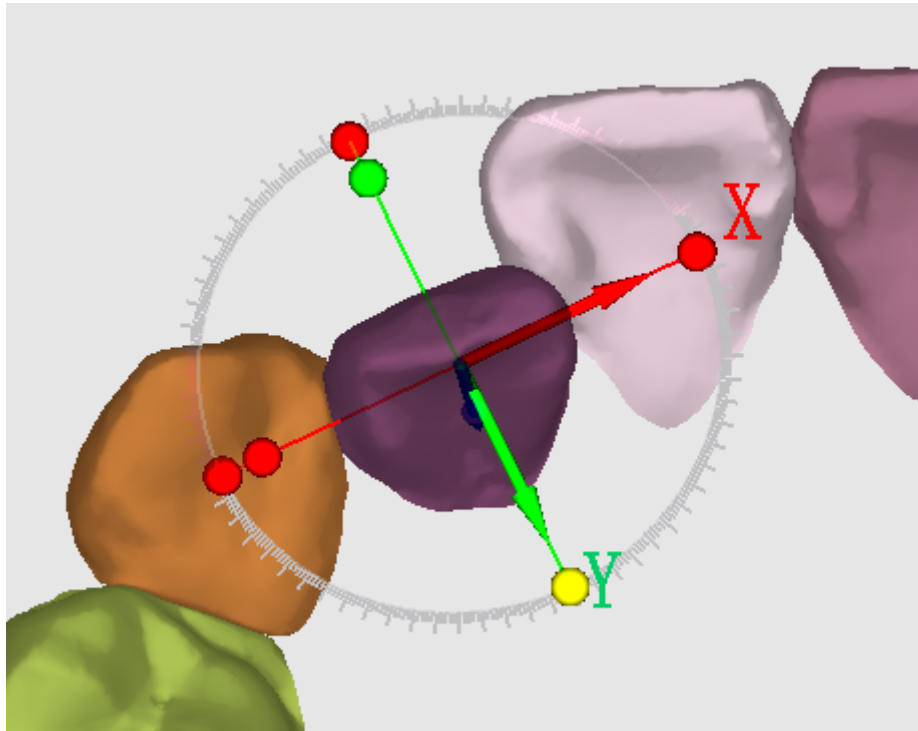
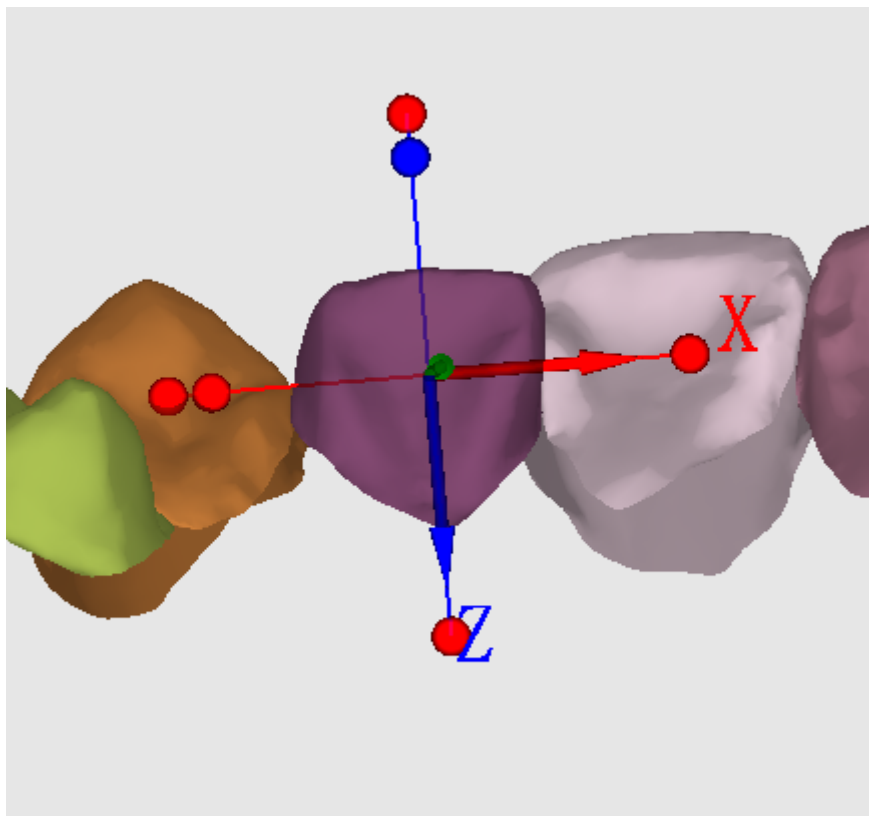
Click on "Add Tooth", mark the area to determine the area, and finally fill in the tooth position.



- Segmentation line ◦ Blue line: Used to mark the tooth area ◦ Green line: Represents the adjacent surface between two teeth. The green dot can be obtained by overlapping the dots on the blue line of the two teeth ◦ Red line: Represents the selected line ◦ Yellow dot: Represents the selected dot ◦ Requirements:
 - The green dots closest to the gingiva on the labial and lingual sides must be dragged to the tip of the gingival papilla
 - There must be at least one contact point on both the labial and buccal sides (requiring at least 2 green dots)
 - In case of inaccurate automatic recognition, adjustments need to be made based on whether the specific teeth are adjacent

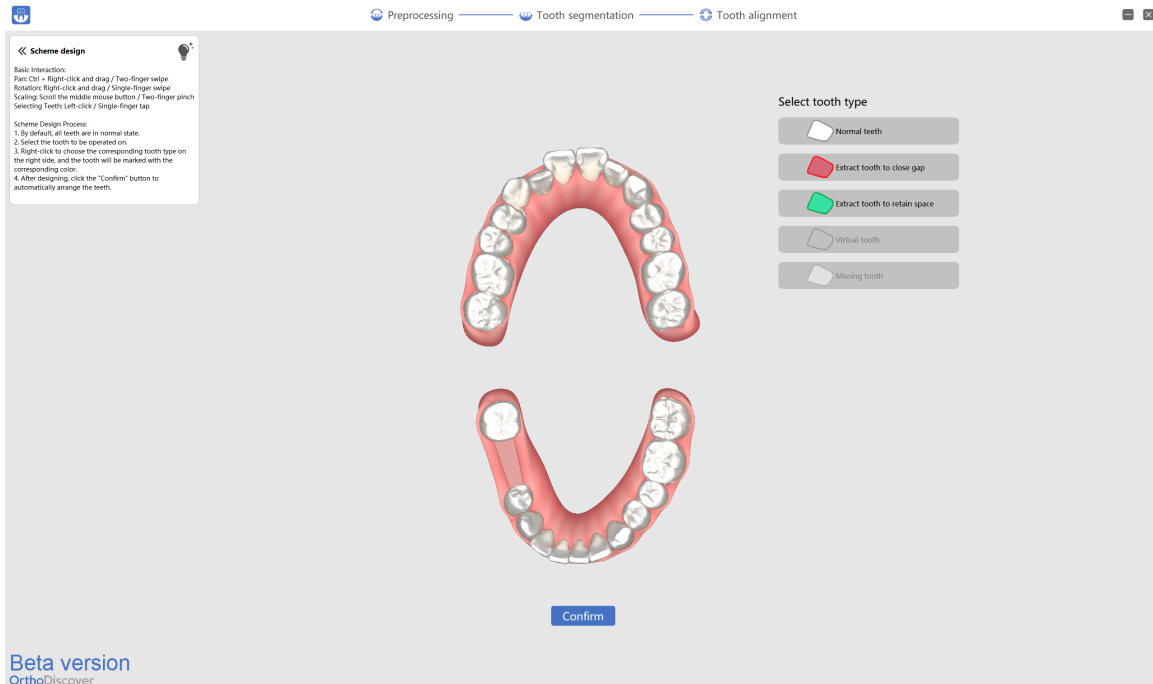


- Dental axis adjustment
 - Red x-axis: Points towards the mesial direction of the teeth
 - Blue z-axis: Points towards the gingiva direction
 - Green y-axis: No adjustment required, and performing automatic calculation

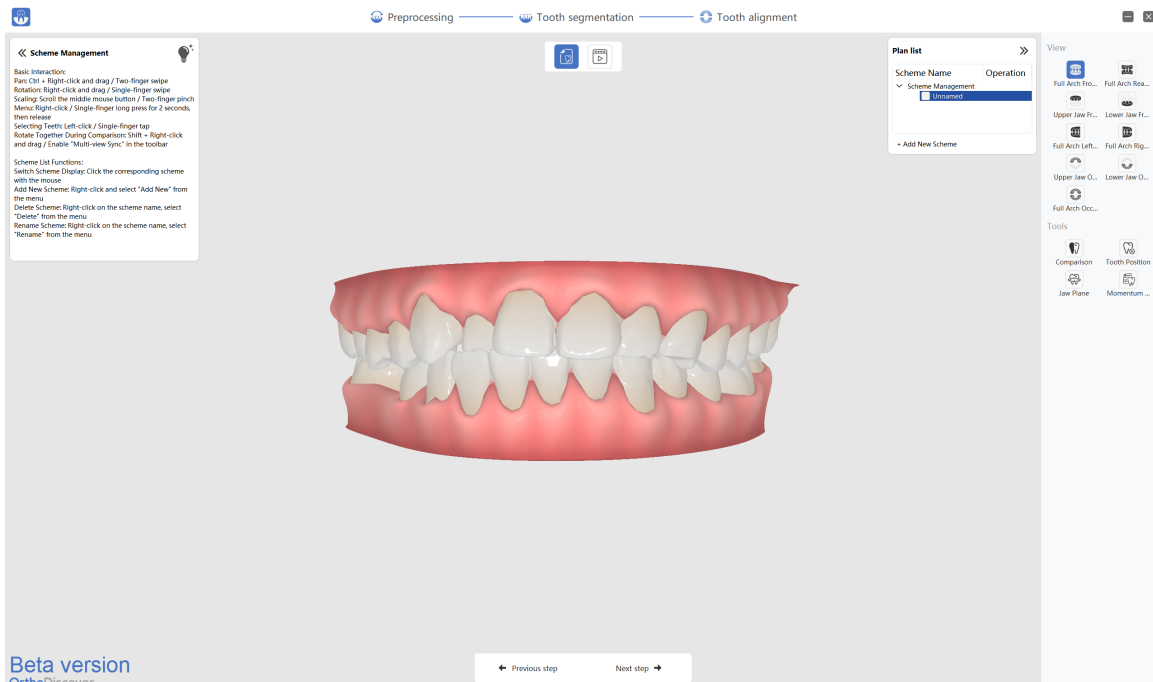


4. Teeth alignment stage

- After entering the teeth alignment stage, you can create a new case to select the type of teeth; (determine whether to preserve/close extraction space, virtual teeth, or missing teeth)



- Multi-angle views of initial and target positions; (comparative view of the upper, lower, left, right, front, and back of the maxilla and mandible)



- Generate orthodontic simulation animation files; (they can be exported and saved, allowing adding new schemes, and will start from the tooth alignment stage)