

EZPRINT

Operation Manual of
Crown Bridge 2.0 Resin on
Asiga Printer



Aidite

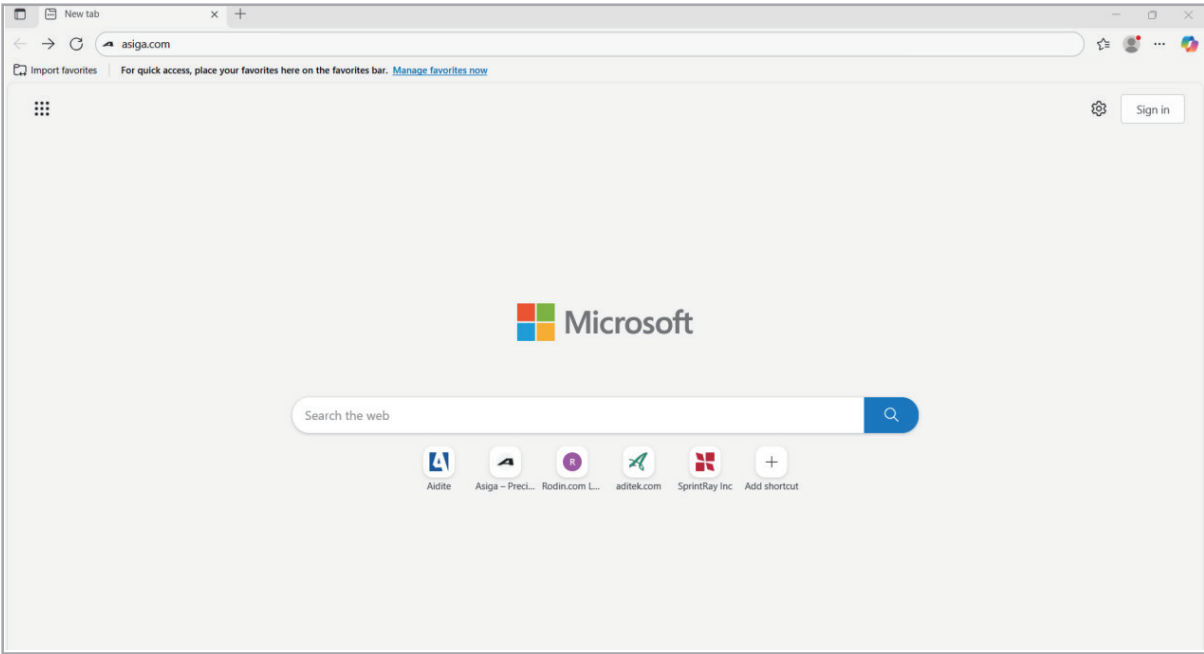
Everyone with a healthy and beautiful smile

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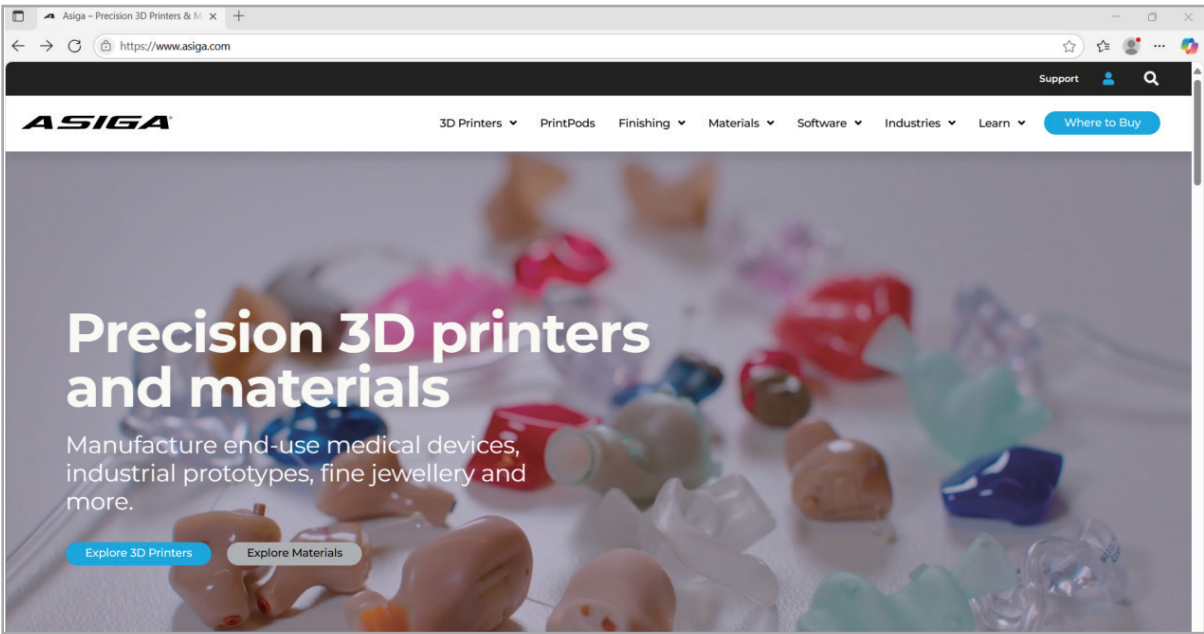
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1 Getting print parameters

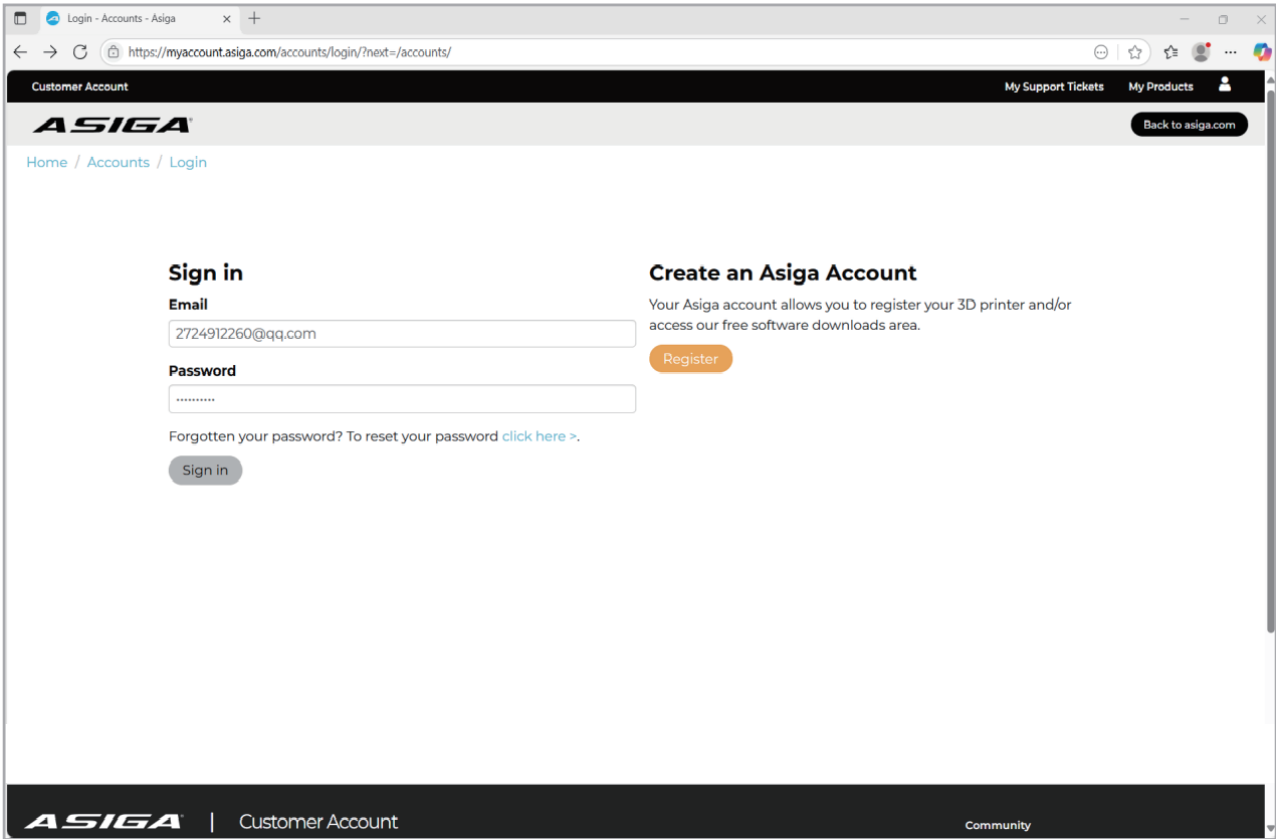
1.1.1 Enter the Asiga website via www.asiga.com.



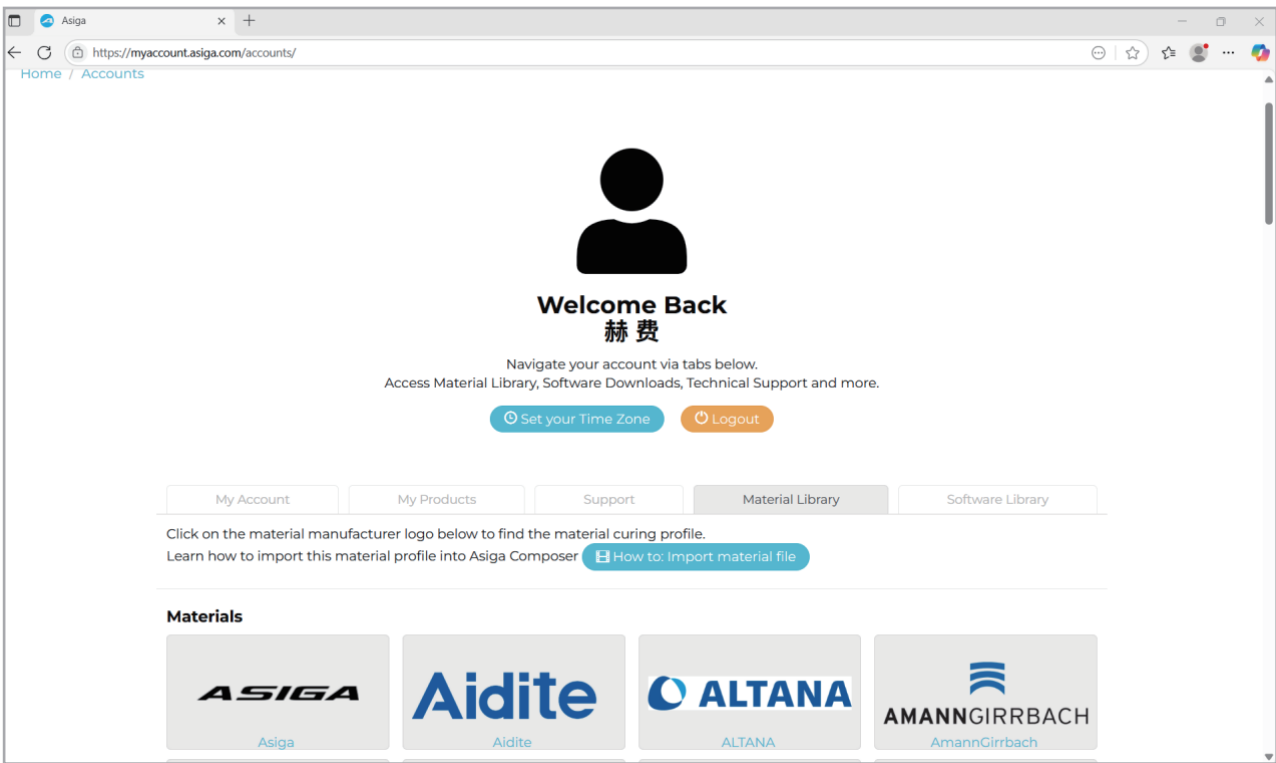
1.1.2 After entering the webpage, click on the icon marked with the red color as below to enter the login screen.

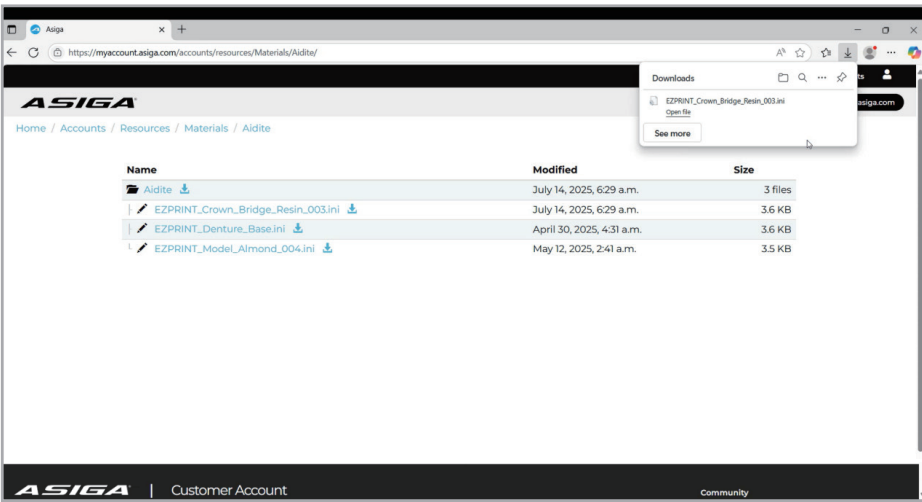
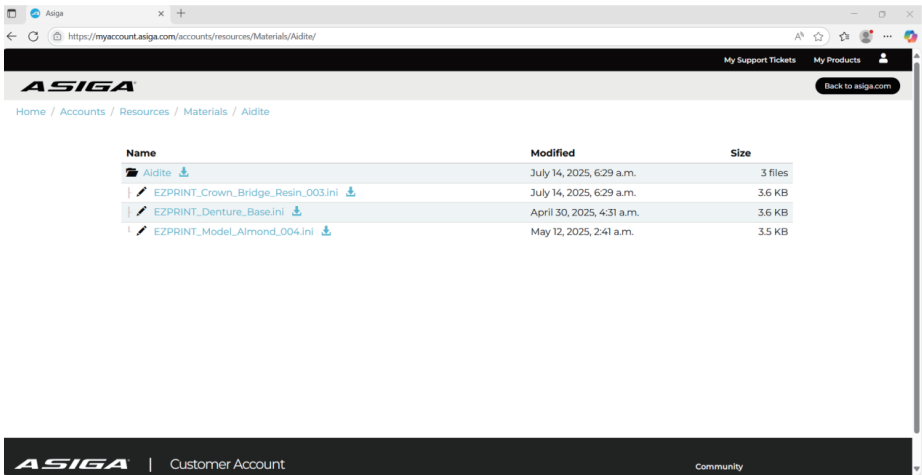


1.1.3 After entering this page,log in with your personal account as below, and click “Sign in” .

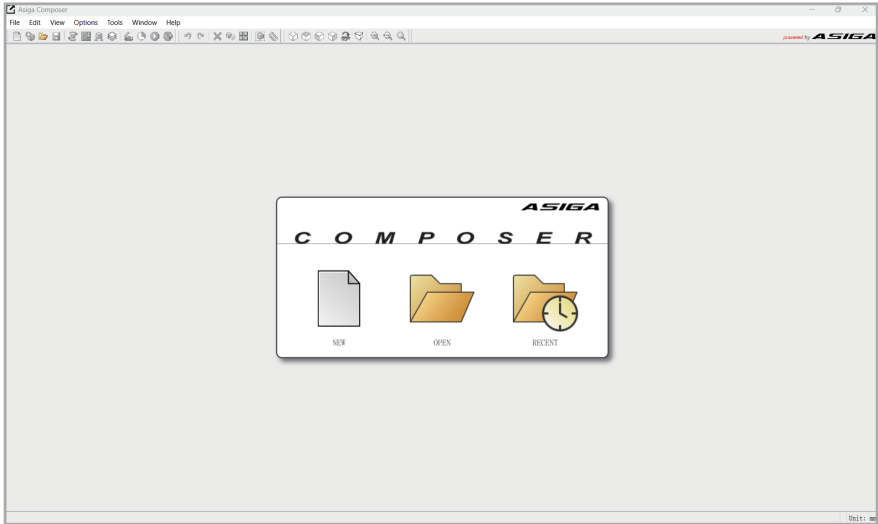
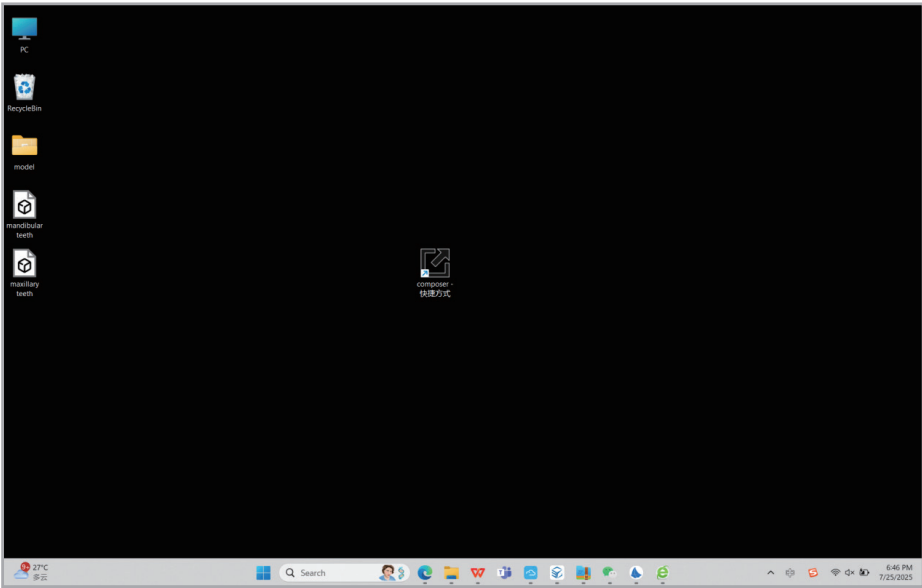


1.1.4 After logging in, click on “Meterial Library” ,select the “Aidite” material profile and download the matching print paramenterers.

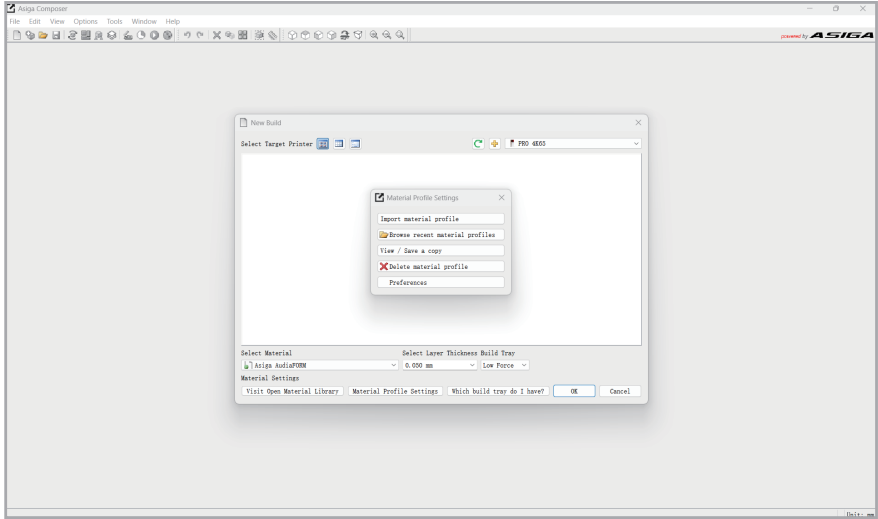
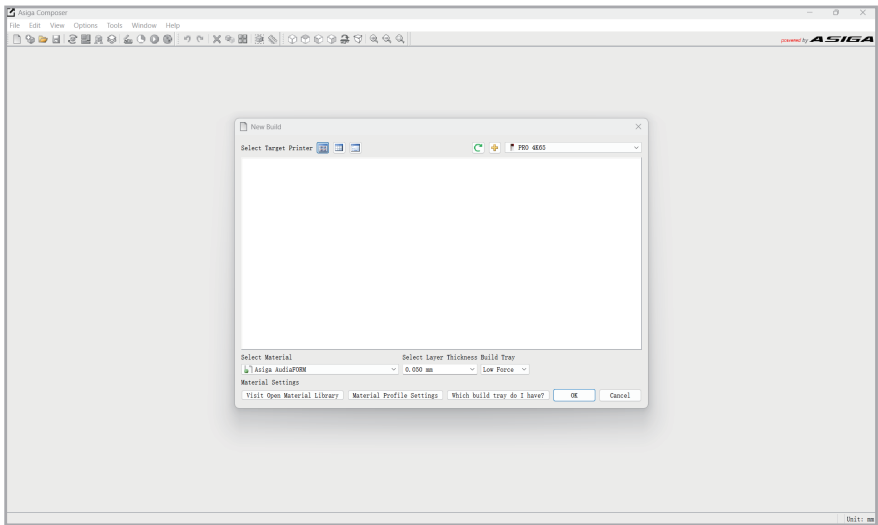


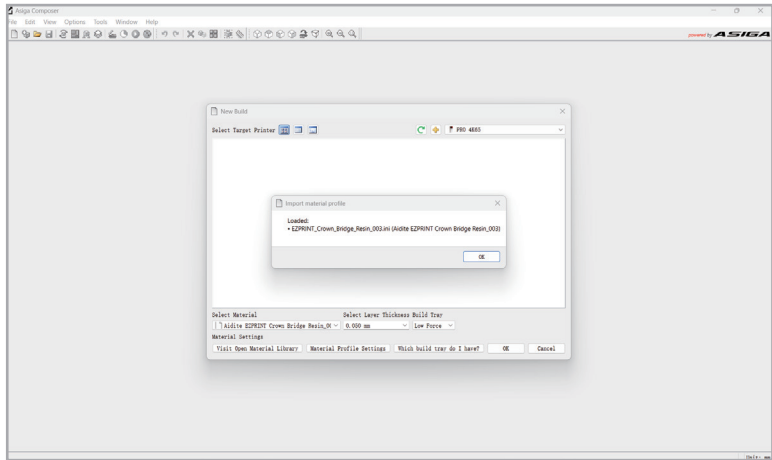
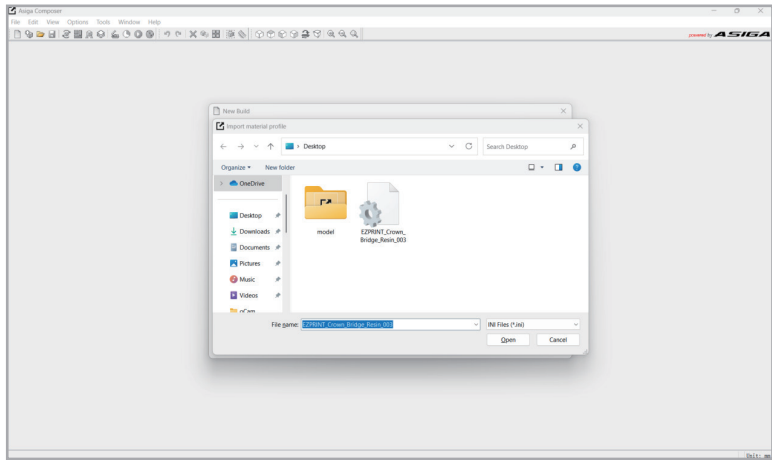


1.1.5 Double-click to open the composer-2.1.2-win64 software and click “NEW” to create a new slice file.



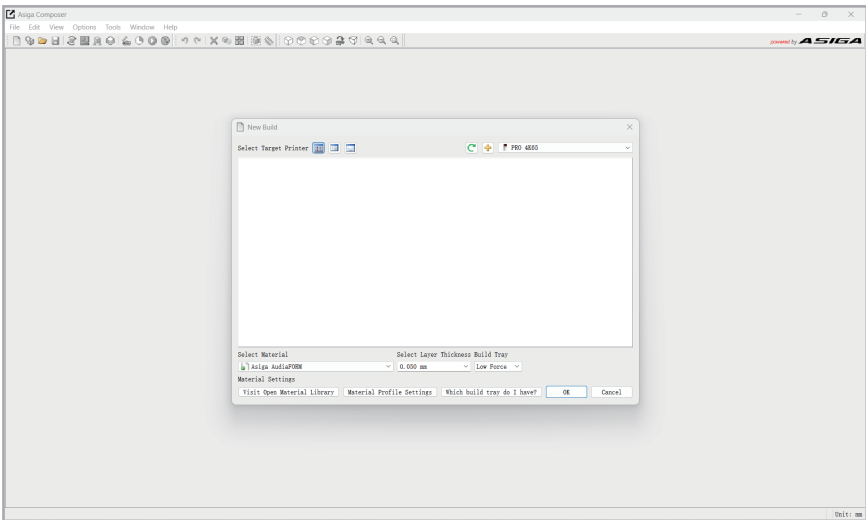
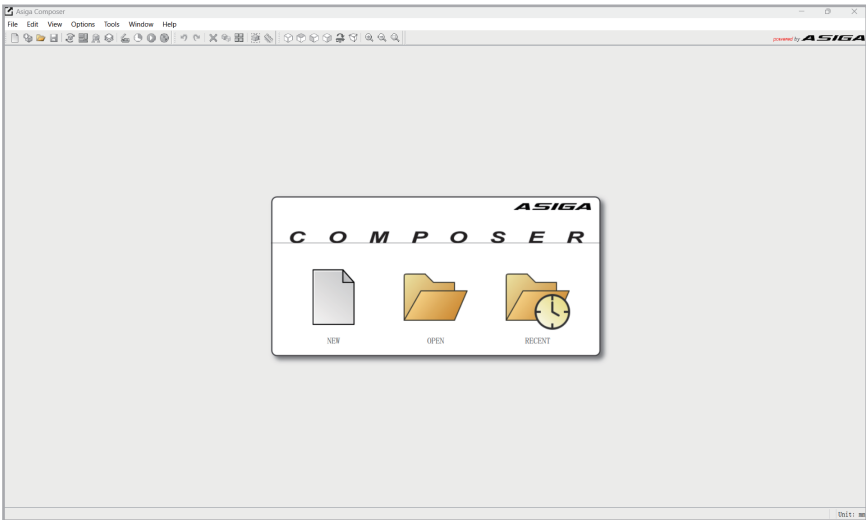
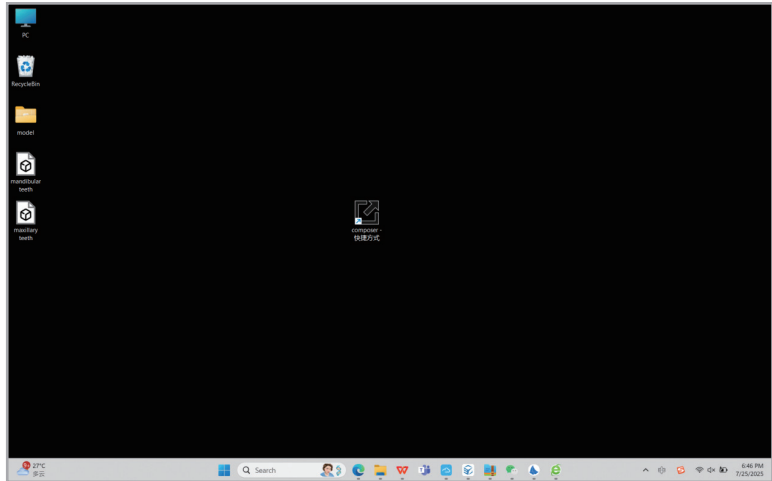
1.1.6 Click “Material Profile Settings” to import the print parameters, follow the steps in the red box in the figure below.



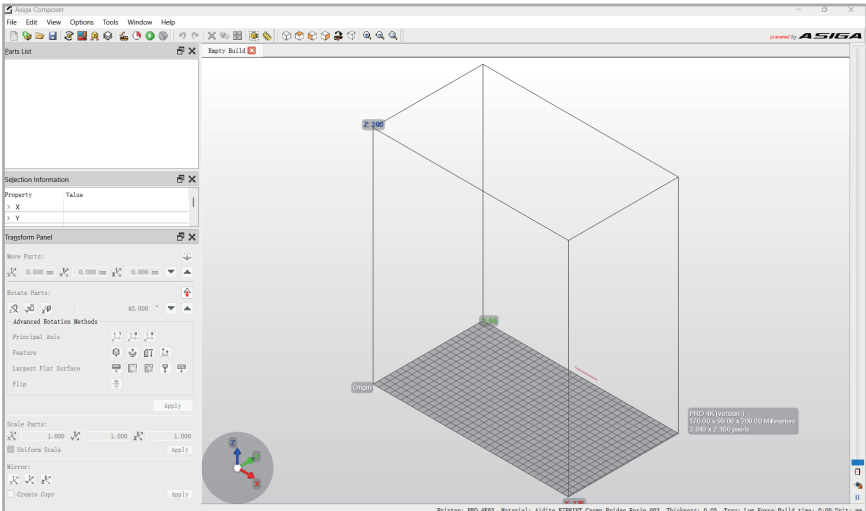


2 Composer-2.1.2-win64 layout printing

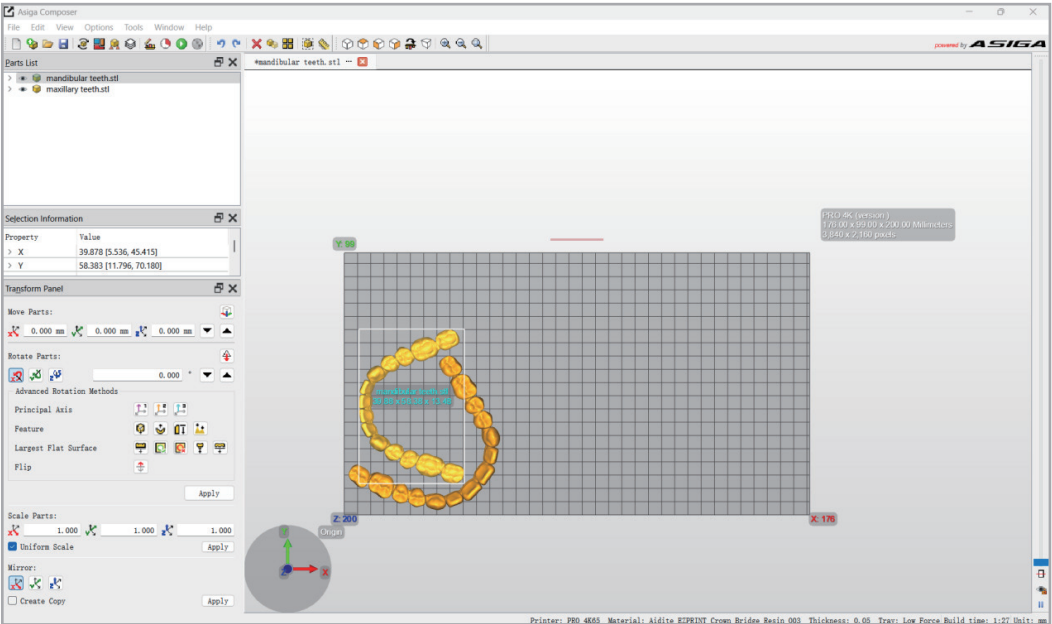
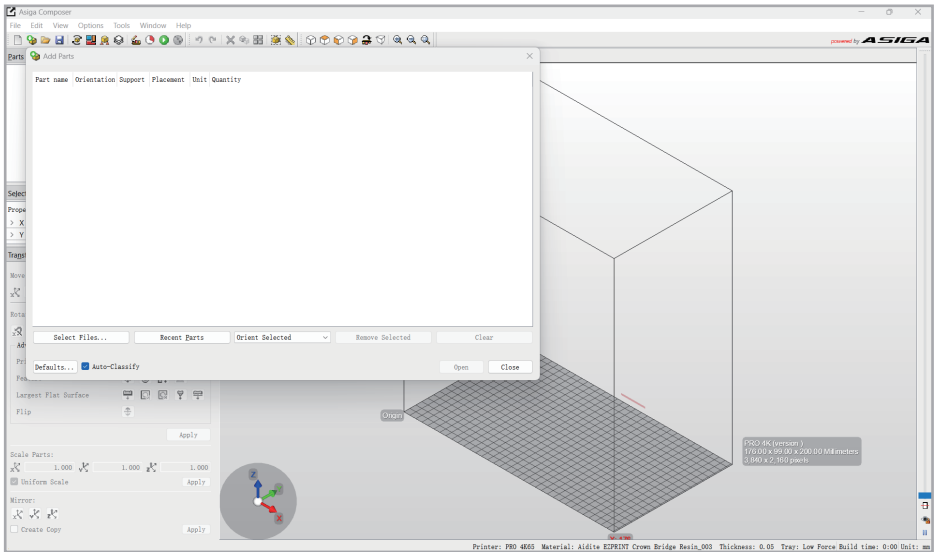
1.2.1 Double click the ‘composer-2.1.2-win64 layout’ software and click NEW to create a new slice file, After selecting the printer, you need to select the print parameters, select “Aidite EZPRINT Crown Bridge Resin-003” in sequence.



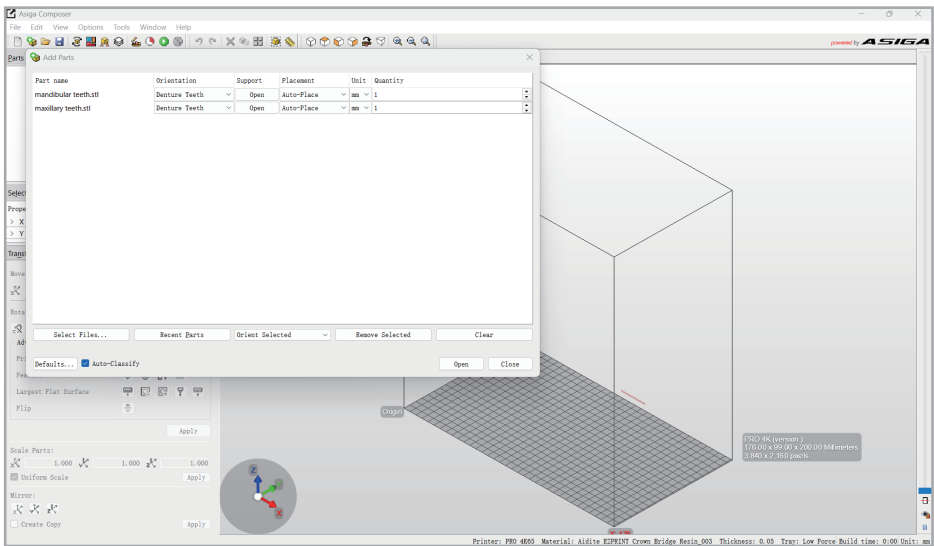
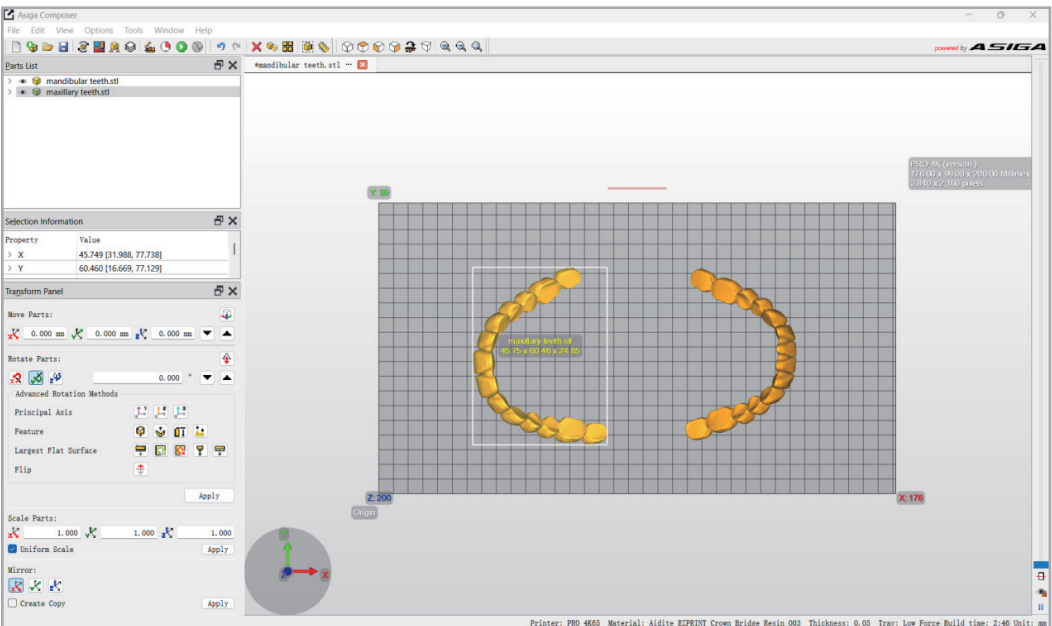
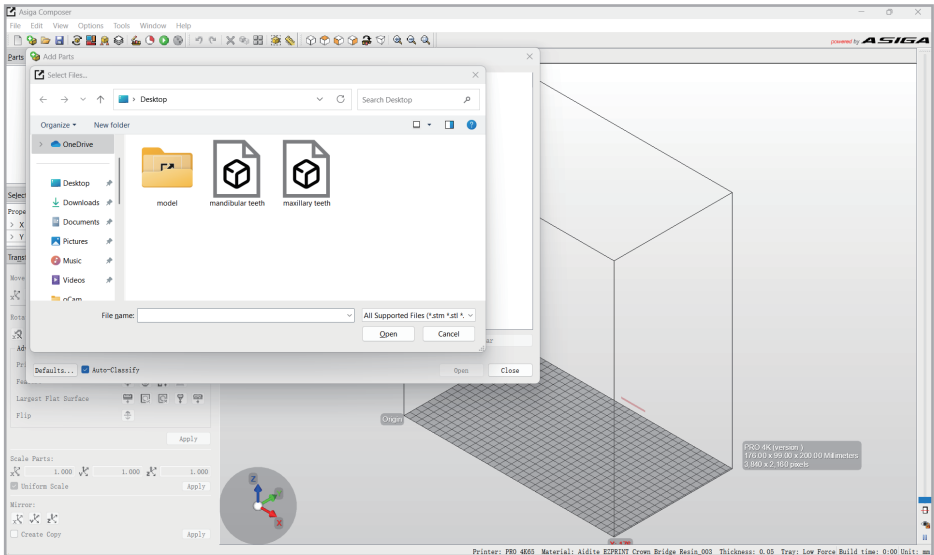
1.2.2 Import the stl file of the model you need to print, and follow the position of the red mark in the figure below.

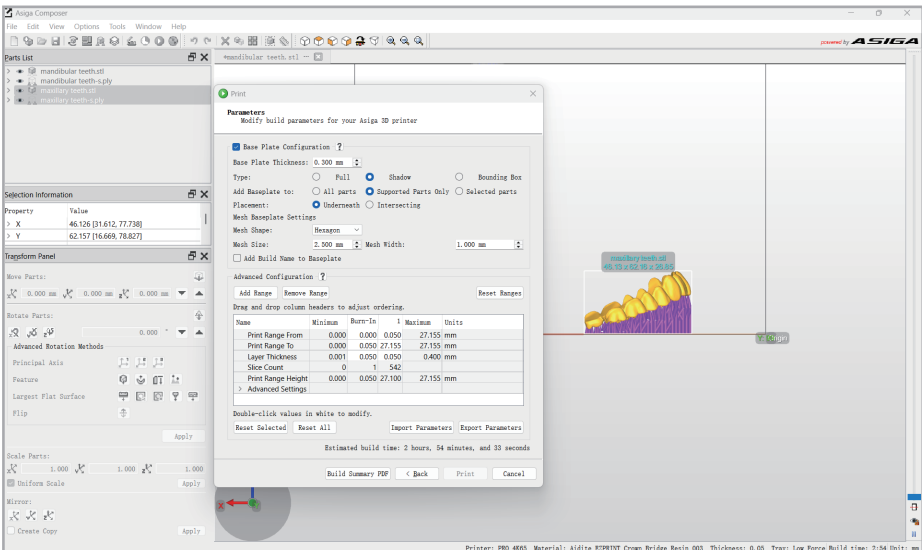
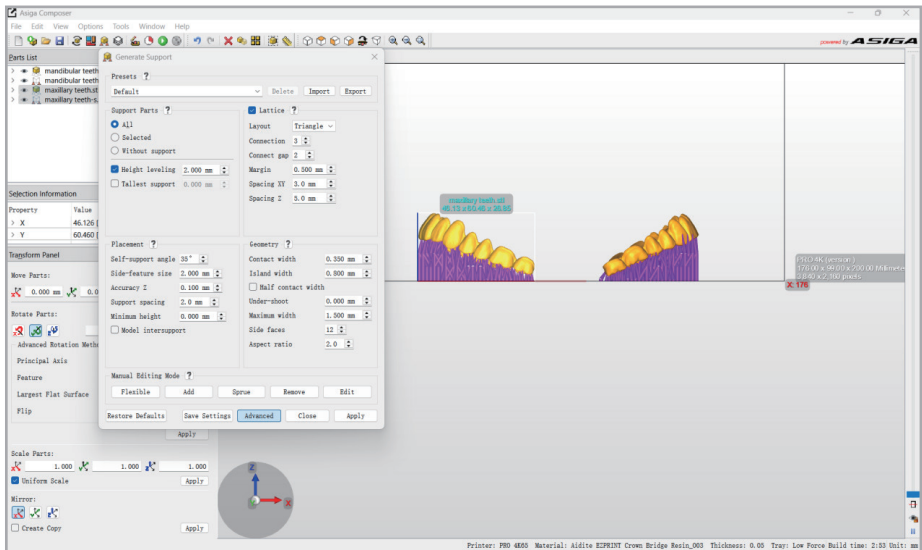
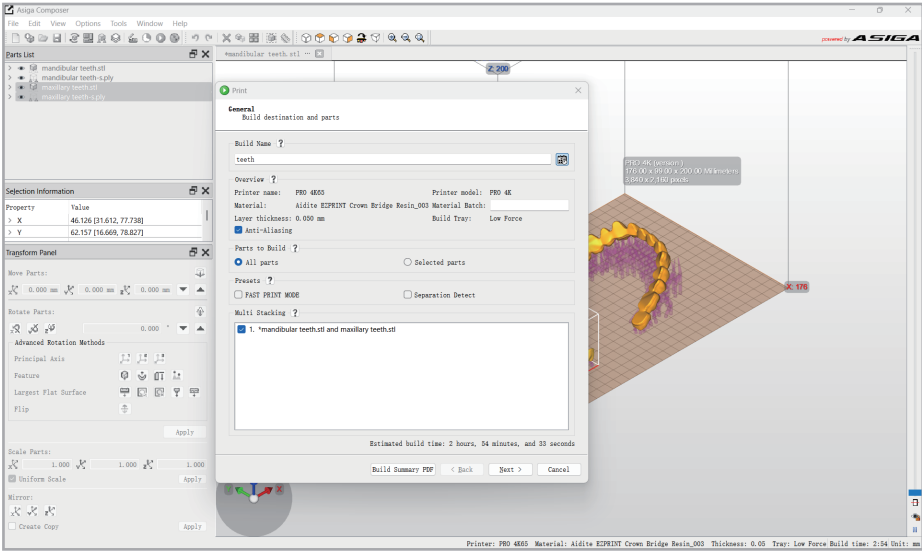
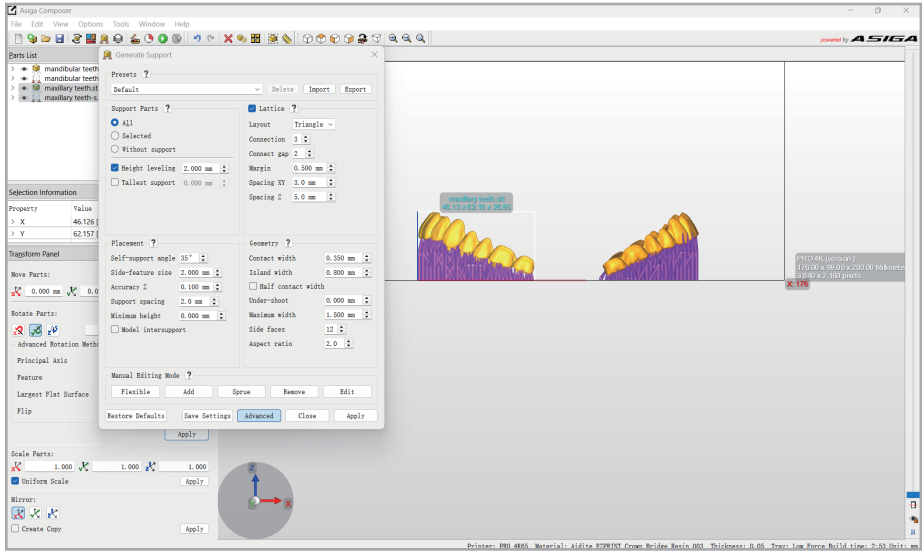
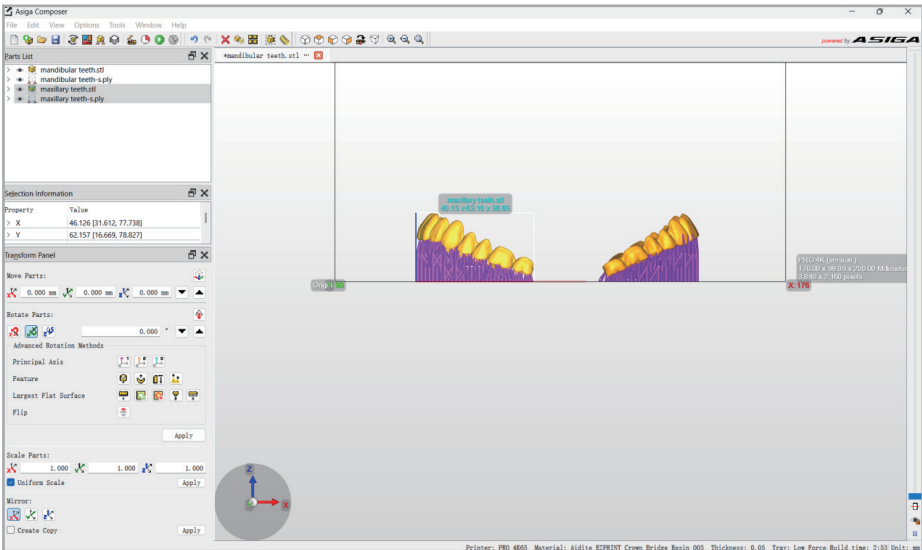
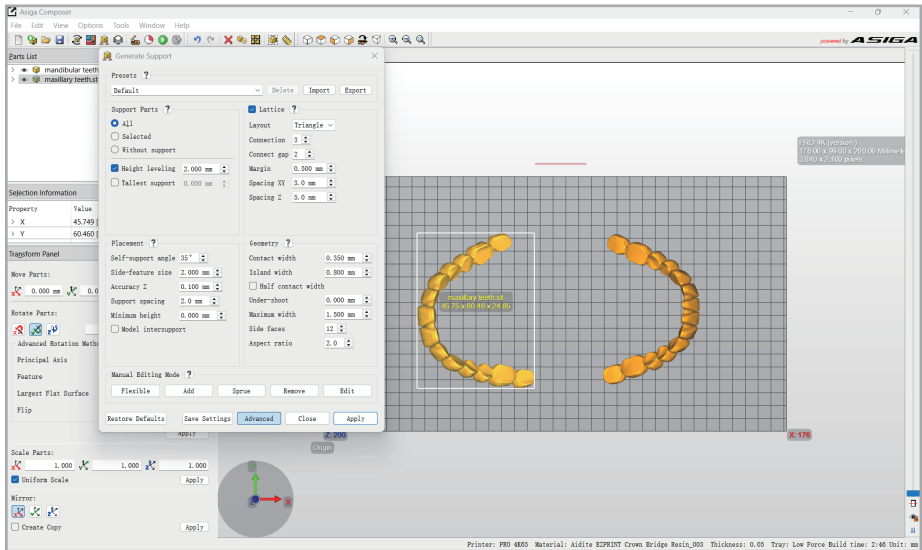


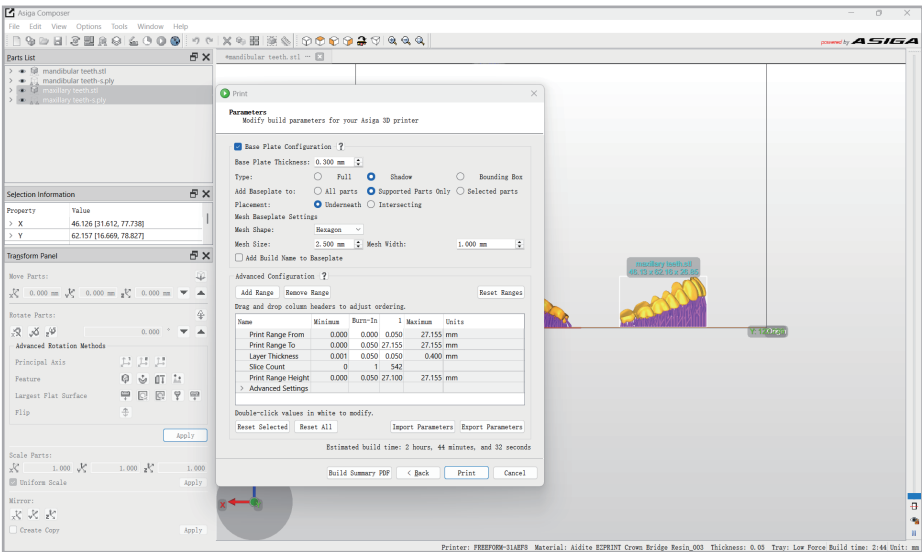
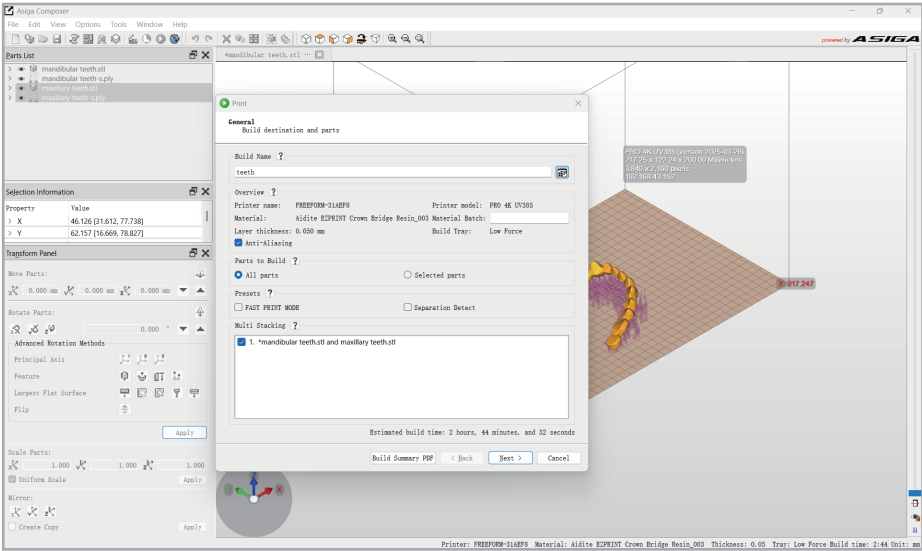
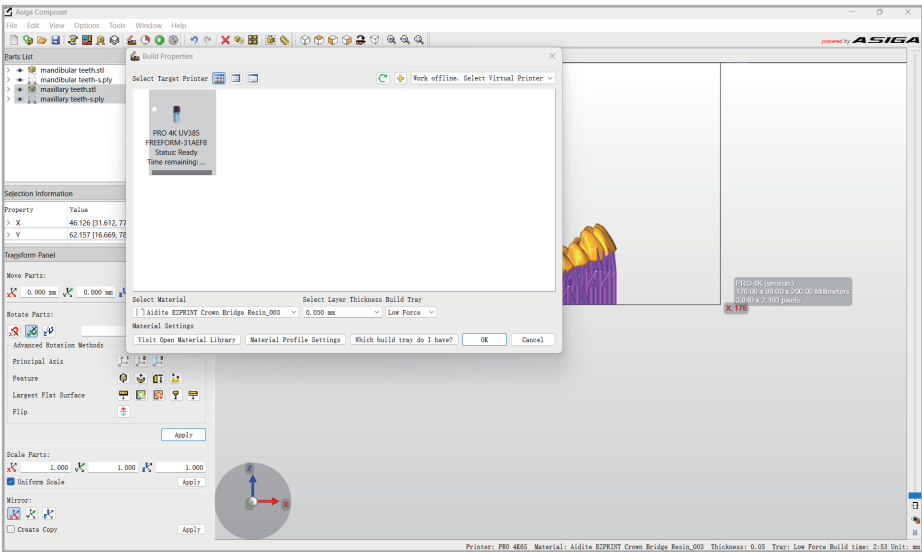
1.2.3 After importing the stl file of target model, you can adjust the spatial coordinates of the target model in the figure below. Using the “Move Parts” section to adjust the relative position of the model on the printing platform, and the “Rotate Parts” section to rotate the model into different angles. Rotate the restoration using the left mouse button to ensure the occlusal/incisal surface of the restoration faces the printing platform, with an angle of 0–10° between the model and the platform.



1.2.4 After adjusting the position of the model, you need to create the support structure. Click the “Add Support” icon in the upper left corner and click Apply. That is, the position of the red mark in the following figure.





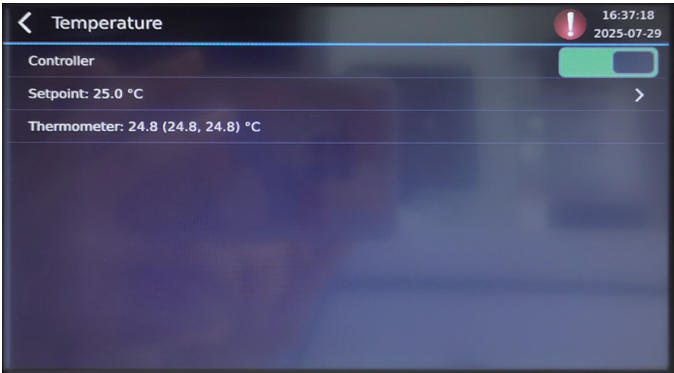
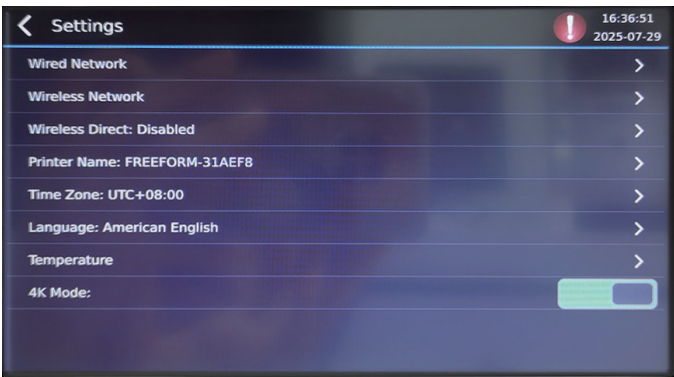


1 Notice

2.1.1 Ensure operation in a yellow light environment. There should be no vibrating equipment near the printer, and the desktop must be flat and stable without shaking.

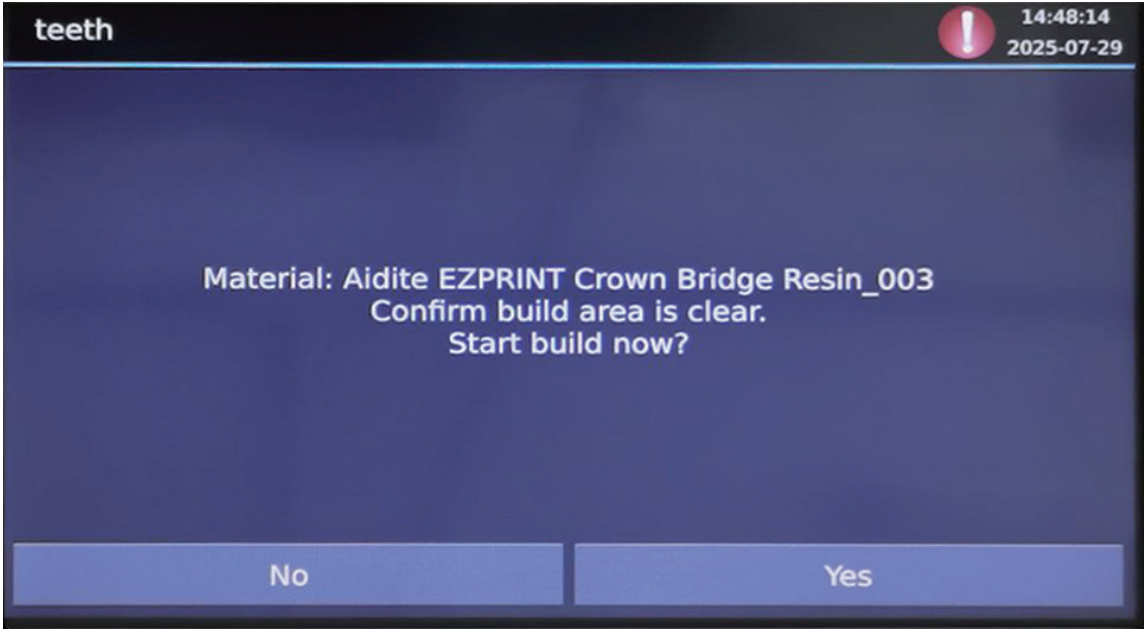
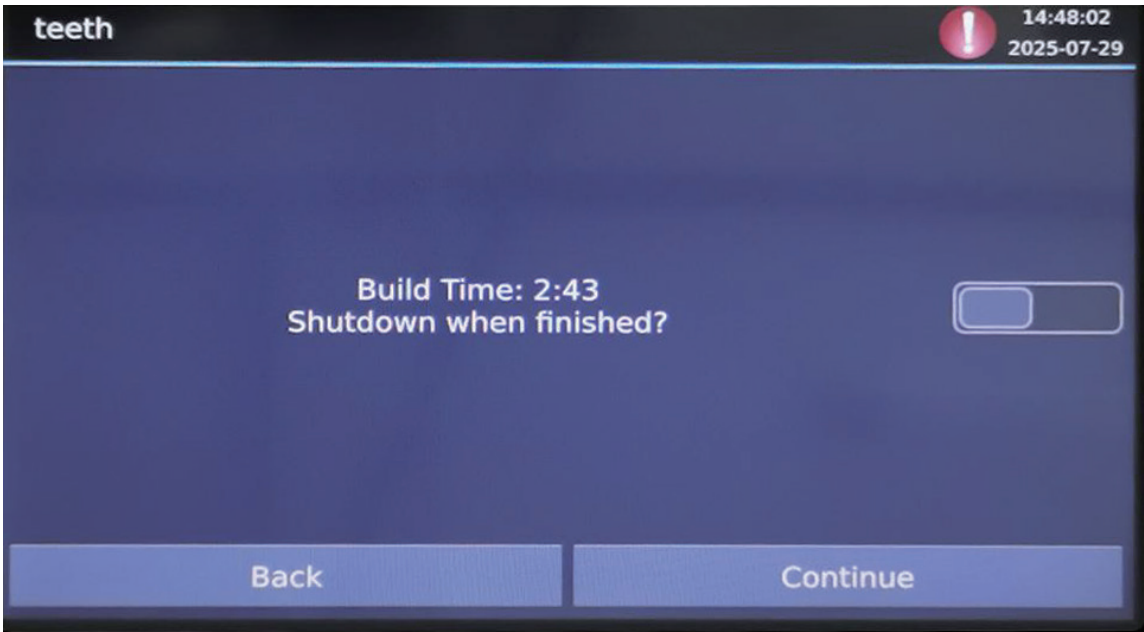
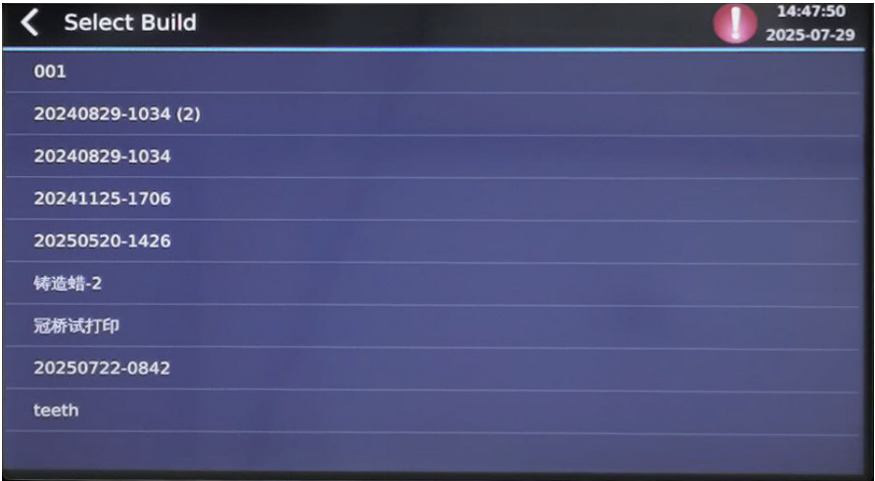
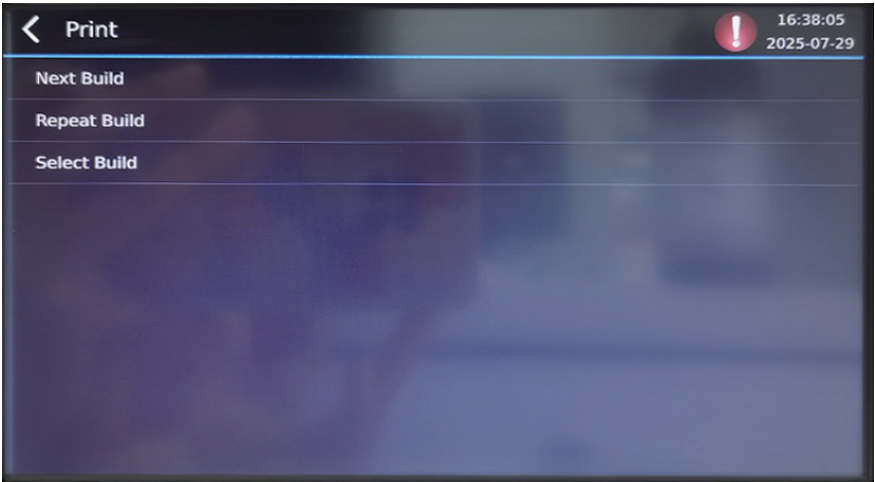
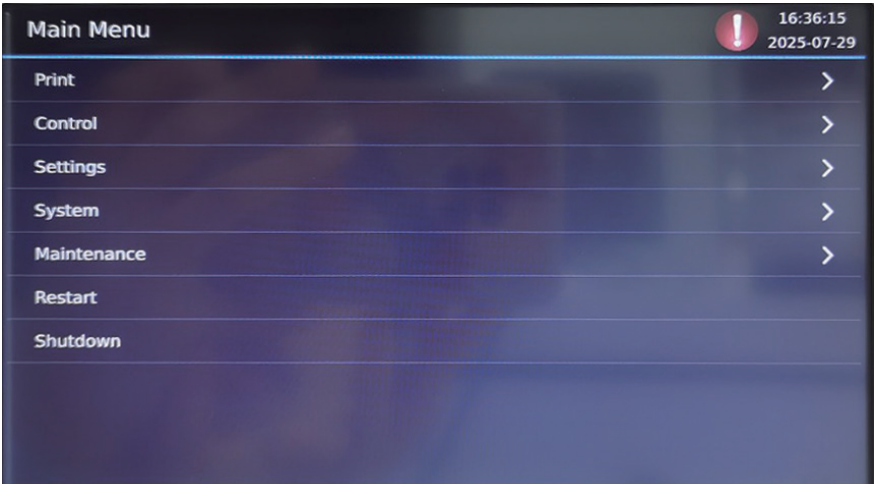
2.1.2 Before pouring the Crown Bridge 2.0 resin liquid into the resin tank, shake it for approximately 3–5 minutes. The liquid level must be between the MIN and MAX lines, Before printing, check and confirm that the printing platform is clean, free of foreign objects, and securely installed.

2.1.3 Navigate to the printer's settings interface, select "Temperature" to activate the heated printing mode, set the temperature to 25°C, and return to the main page.



2 Print

2.2.1 Go to the printer's printing interface, select the sliced file, and start printing.



3 Removing Parts and Support Structures

2.3.1 Prepare the cleaning solution by mixing anhydrous ethanol (with a concentration of over 90%) and water at a 1:1 ratio. Pour the cleaning solution into an ultrasonic cleaner and clean the restoration for 30 seconds. After that, use a high-pressure air gun to blow off any residual resin and cleaning solution. If there is any remaining resin on the occlusal surface of the crown and bridge restoration that cannot be completely blown off, scrub the surface with a toothbrush dipped in ethanol until the surface of the finished product no longer reflects light, indicating that it is clean.



4 Cleaning

2.4.1 Prepare the cleaning solution by mixing anhydrous ethanol (with a concentration of over 90%) and water at a 1:1 ratio. Pour the cleaning solution into an ultrasonic cleaner and clean the restoration for 30 seconds. After that, use a high-pressure air gun to blow off any residual resin and cleaning solution. If there is any remaining resin on the occlusal surface of the crown and bridge restoration that cannot be completely blown off, scrub the surface with a toothbrush dipped in ethanol until the surface of the finished product no longer reflects light, indicating that it is clean.

5 Post-curing

2.5.1 Place the cleaned restoration into the CL-200 post-curing light chamber, select the "13.C&B" curve, and start the curing process.



2.5.2 After curing is completed, wait until the temperature inside the light chamber drops below 60°C, then press the button on the right side of the light chamber to open the door and retrieve the cured restoration.

1 Remove the support rod

After curing, use GB0502Z and GB0101D to grind off the support rods and excess support points of the teeth.

2 Checking Occlusion and Preparing for Bonding

Prepare the teeth and denture base. Place the teeth into the base sockets, position the denture base onto the model, and mount the model on the articulator to check for excessive occlusal elevation. The occlusion must be controlled within $<0.5\text{mm}$ to be considered acceptable. Once confirmed as acceptable, remove the teeth. Apply an appropriate amount of denture base liquid into the base sockets, align the teeth into the sockets, and press gently to expel excess resin. Use a dental applicator to scrape off any residue along the gingival margin until clean. Irradiate the junction of the teeth and denture base evenly for 1 minute using a 395nm hand-held curing light.



3 Post-Curing the Denture Base

Place the cleaned and dried denture base in the CL-200 post-curing light chamber with its alveolar surface facing upward. Select the "11.Base" curing program to start curing. After curing is complete, ensure the temperature inside the post-curing light chamber drops to below 60°C before removing the denture base restoration.



4 Grinding

Use either the GB0101D or GB0102D bur to smooth and grind down residual protruding parts of the support frames, and trim the shape and thickness of the denture base.



5 Polishing

Use a high-speed polishing machine with resin denture base polishing powder to polish the denture base. Polish until a mirror-like finish is achieved, then rinse off residual polishing powder with clean water. Next, use the high-speed polishing machine with polishing wax to add luster, and clean the remaining polishing wax with a steam cleaner. Then you will get the final restoration.

