

User Manual

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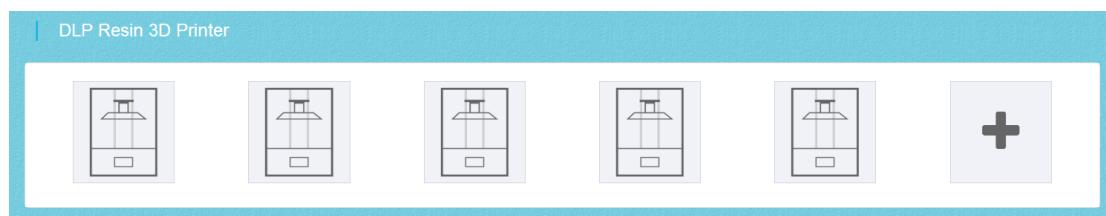
1. Software Introduction

1.1 MSLA resin Printer:

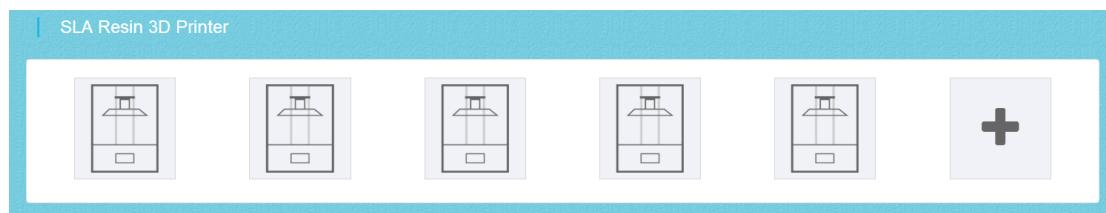
Support for the following machines:

- AnyCubic Photon
- AnyCubic Photon s
- ELEGOO MARS
- ELEGOO MARS Pro
- ELEGOO SATURN
- Flashforge Explorer Max
- Longer3D Orange10
- Longer3D Orange30
- Orbeat D100
- Phrozen Shuffle
- Phrozen Shuffle XL
- Phrozen Shuffle 4K
- Phrozen Sonic Mini
- QIDI Shadow5.5
- QIDI Shadow5.5s
- SparkMaker Original
- SparkMaker FHD
- TRONXY Ultrabot 5.5
- TRONXY Ultrabot 5.8
- WanHao D7
- WanHao D8
- Zortrax Inkspire

1.2 DLP resin 3D Printer:



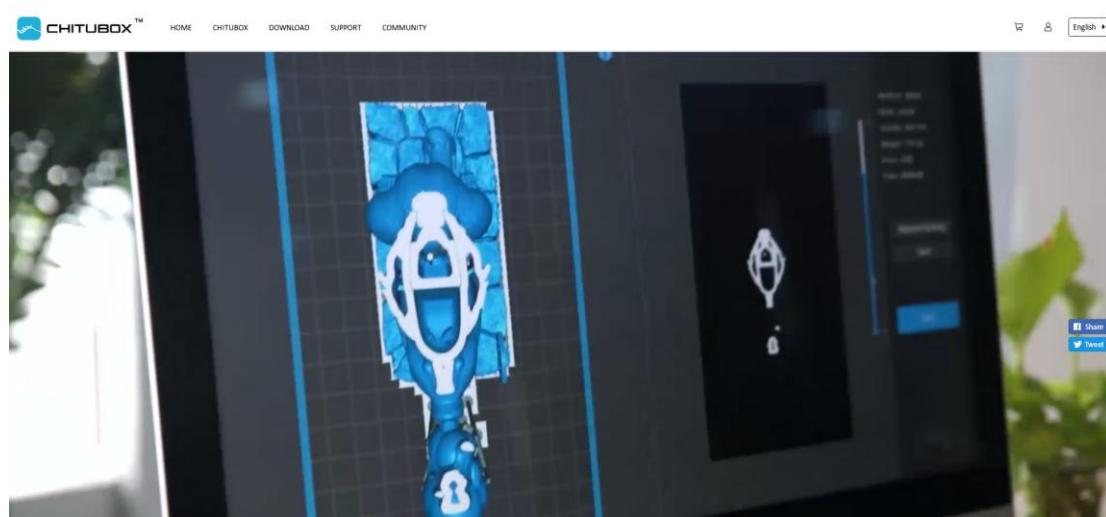
1.3 SLA resin 3D Printer:



2. Software installing

2.1 Software download

A: Open the browser and input this website:: www.cbd-3d.com reach PRODUCTS->CHITUBOX then turn to www.chitubox.com/



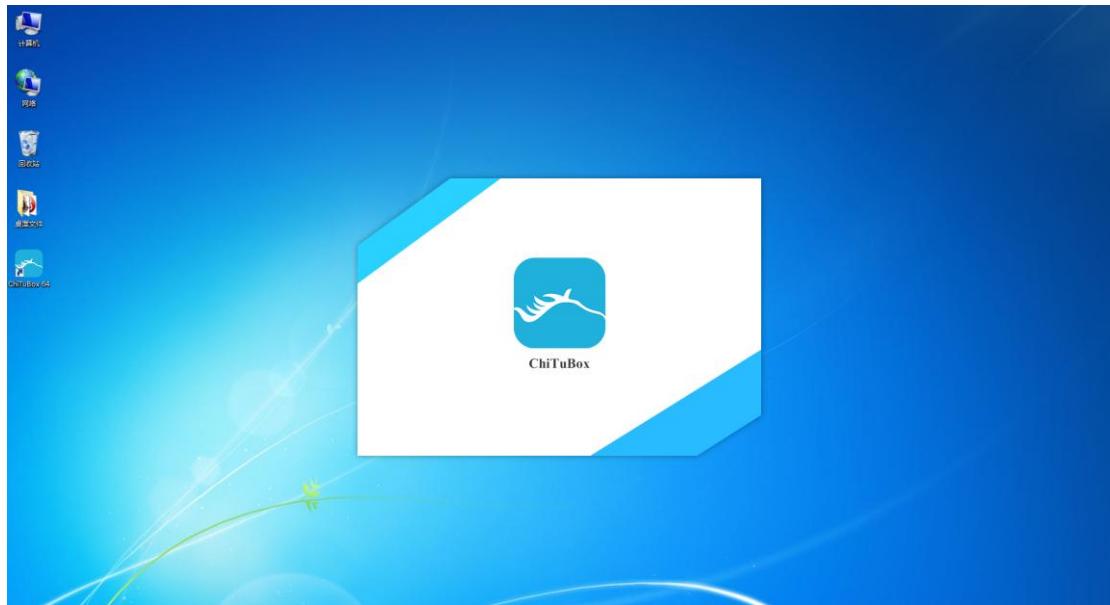
B: Download on the official website: <http://www.chitubox.com>

The screenshot shows the CHITUBOX™ website's download section. At the top, there's a navigation bar with links for HOME, CHITUBOX, DOWNLOAD, SUPPORT, and COMMUNITY. On the right side of the header, there are icons for a shopping cart, user profile, and language selection (English). Below the header, a large image of a laptop displaying the CHITUBOX software interface is centered. A modal window titled "CHITUBOX FREE" is open over the image, showing the software's version (1.5.0), a brief description ("A free 3D printing slicer software to help you design and slice your objects."), and download links for Windows (32-bit and 64-bit), Mac, and Linux. Below the download links is a "Previous Versions >" link. To the left and right of the main content area are decorative network-like graphic elements. At the bottom of the page, there are two sections: "Language Translations" (listing supported languages like English, French, German, Italian, Japanese, Spanish, Portuguese, Turkish, Greek, Russian, Simplified Chinese, Traditional Chinese, and Korean) and "Supported File Formats" (listing 3D models, slicing formats, project files, and profile files).

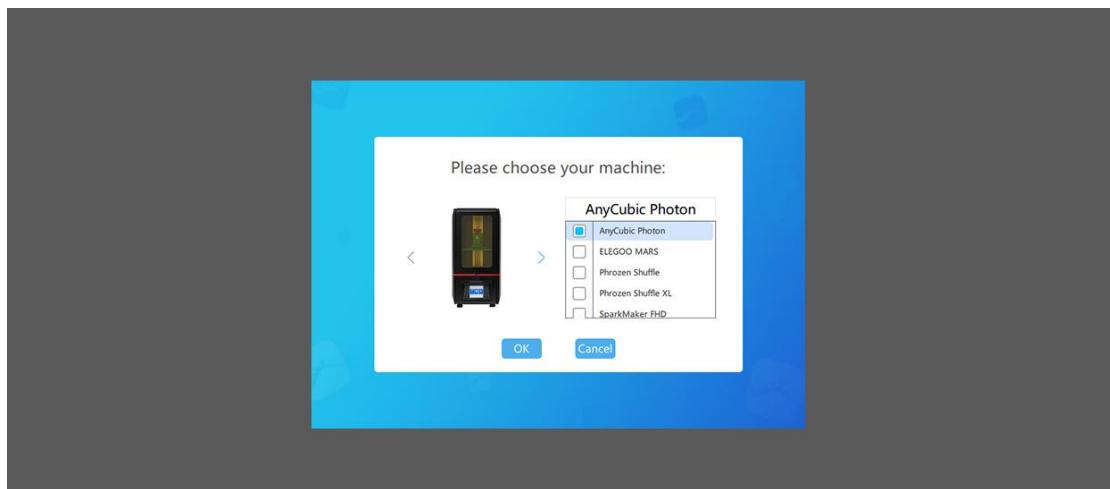
2.2 Software installation

(1) Register the email to log in and download, open the downloaded installation package, and follow the prompts to complete the installation (register the email login, select the version compatible with your computer for Windows (32), Windows (64), Mac, Linux)

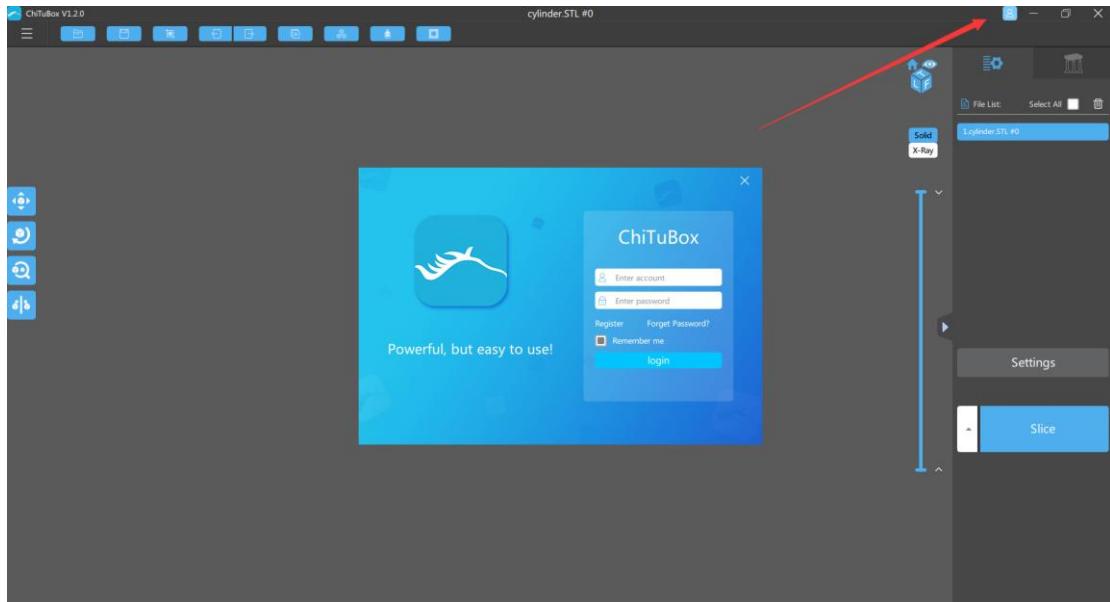
The screenshot shows the CHITUBOX™ website's sign-in page. At the top, there's a navigation bar with links for HOME, CHITUBOX, DOWNLOAD, SUPPORT, and COMMUNITY. On the right side of the header, there are icons for a shopping cart, user profile, and language selection (English). Below the header, there's a large blue circular logo with a white stylized bird or hand icon. The main content area is a "Sign In" form with fields for "Please enter your e-mail address" and "Please enter your password". Below the password field are links for "Sign Up" and "Forgot the password?". There are also "Remember Me" checkboxes and a "Sign In" button. At the bottom of the page, there's a footer with the CHITUBOX logo, a "Software" section listing CHITUBOX Pro, CHITUBOX Free, and Support, a "Company" section listing About Us and Contact Us, an "Address" section with the company's location (409, Block A, Huafeng Smart Innovation Port, Gushu 2nd Road, Baoan District, Shenzhen, Guangdong, China 518102), and a "Follow Us:" section with social media icons for Facebook, YouTube, Twitter, and Instagram.



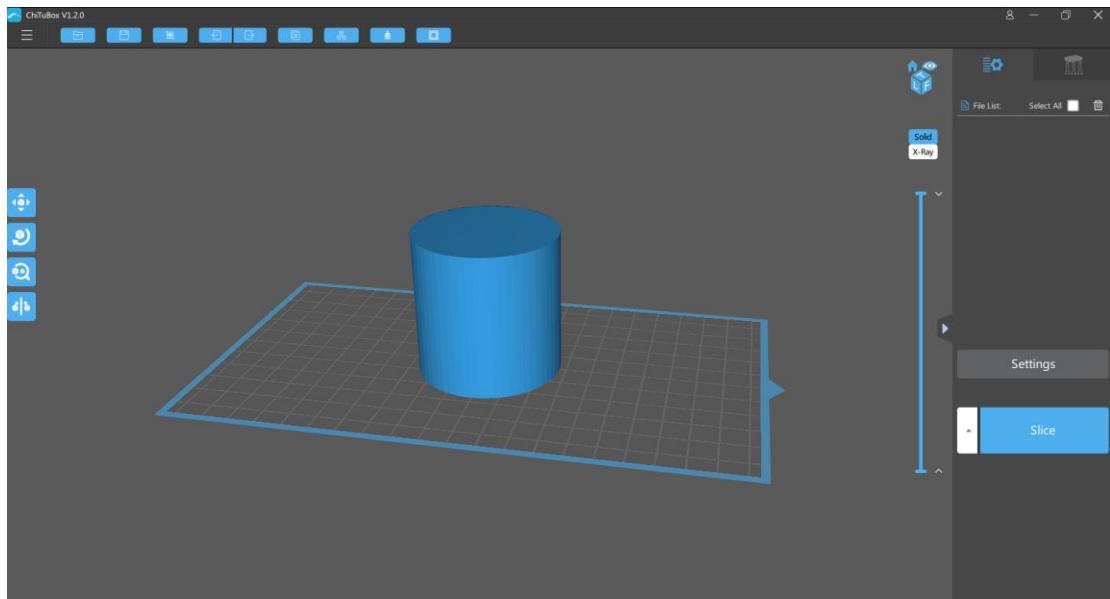
(2) Start the software using the desktop icon or the shortcut in the start menu. When opening the software for the first time, the machine selection box will pop up, and you can choose the machine you want.



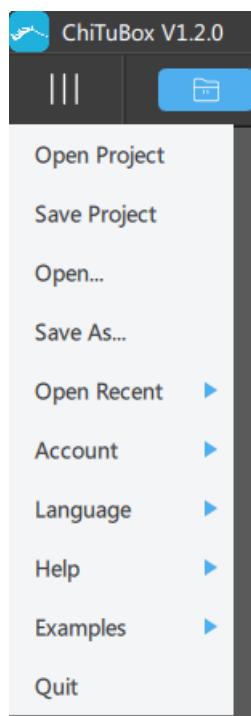
3. User login (optional, non-compulsory)



4. Software operation



4.1 Main Menu



4.1.1 Open Project: Open the project you need to operate

4.1.2 Save Project: Save the manipulated model to the specified directory path

4.1.3 Open: Open the model

4.1.4 Save as: Save as other file format

4.1.5 Open recent: Open recent files

4.1.6 Account: Login and Authorization

4.1.7 Language: Users can choose their own language according to their needs (English, Simplified Chinese, Traditional Chinese, German, French, Russian, Korean, Italian, Brazilian Portuguese, Turkish, Greek, Spanish)

4.1.8 Help

Check for updates: Check the current version

4.1.9 Example: A cube model and a cylinder model.

4.1.10 Exit: Close the CHITUBOX

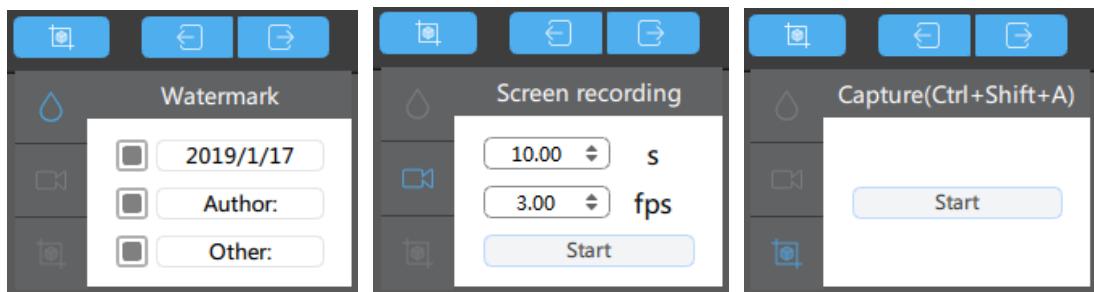
4.2 Introduction of Menu



4.2.1 **Open file:** load into one or multiple files.

4.2.2 **Save file:** Save the current file

4.2.3 **Screen capture/recording:** Watermark, recording and Capture



(1) Watermark: Add watermarking information to the picture (date, author, etc.)

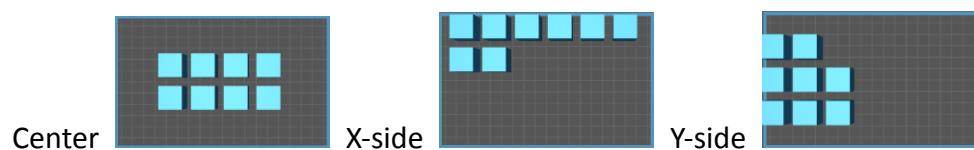
(2) Screen recording: You can set time (/ s), frame rate (/ fps),

(3) Capture: Click the “Start” button

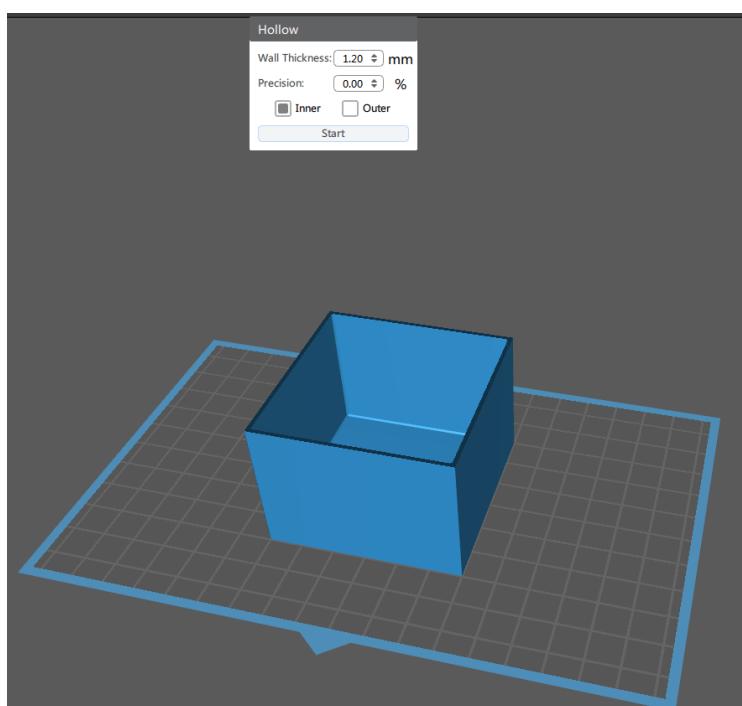
4.2.4 Undo & Redo

4.2.5 Clone the current model

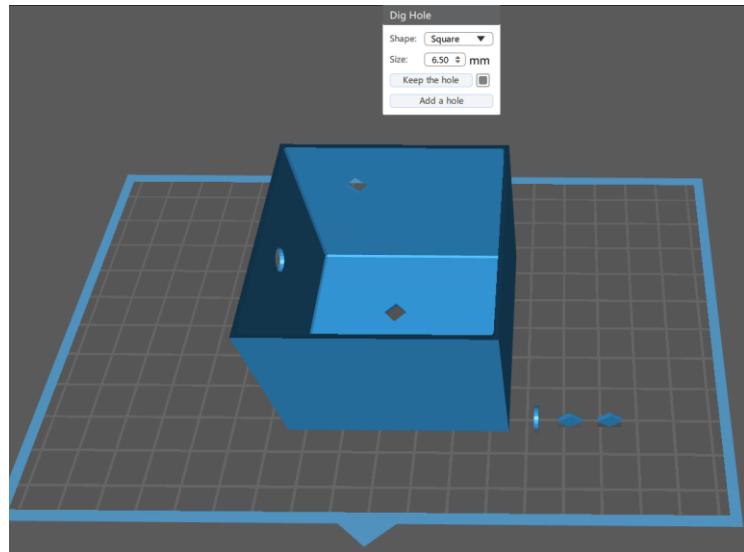
4.2.6 Auto layout:



4.2.7 Hollow: inter or outer hollow, can set wall thickness and precision.

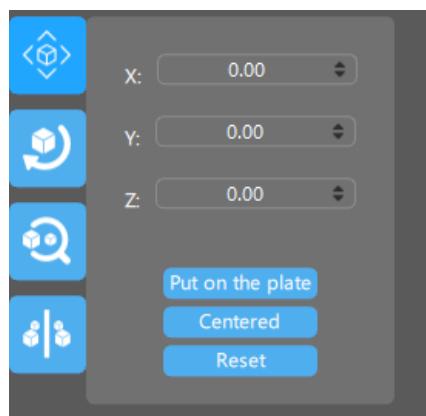


4.2.8 **Dig Hole:** Shape and size can be seted, keep the hole, add a hole.



4.3 Model Edition

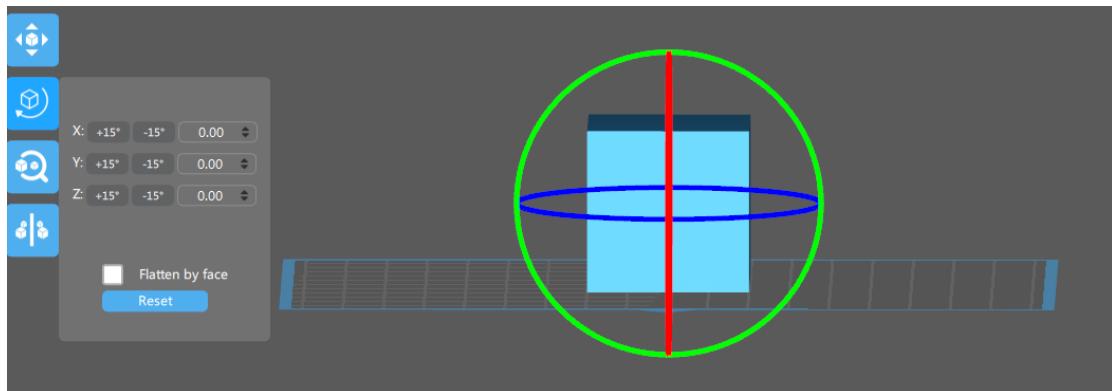
4.3.1 Move



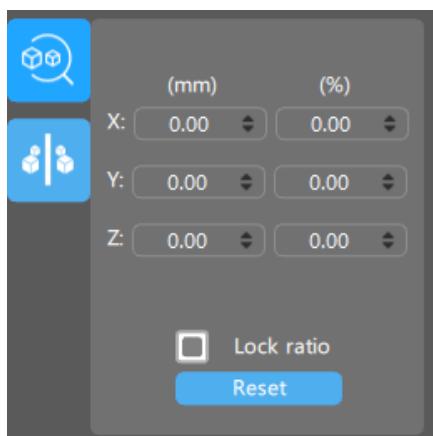
(1) Move **X,Y** and **Z** axes respectively: Scroll the mouse or enter data directly.

(2) The model can be placed directly on the platform, centered or reset.

4.3.2 Rotate: Turn and rotate model (shortcut: double click)



4.3.3 Zoom : Zoom on X, Y and Z axes respectively:



4.3.4 Mirror

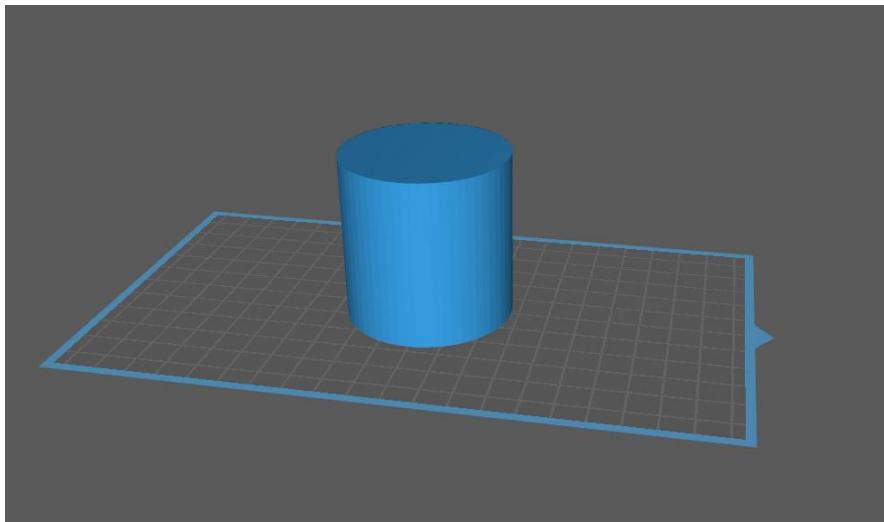


(1) X Mirror: Mirror the current model with the X axis as the axis of symmetry

(2) Y Mirror: Mirror the current model with the Y axis as the axis of symmetry

(3) Z mirror: Mirror the current model with the Z axis as the axis of symmetry

4.4 Mouse operation (operate in the middle page)



4.4.1 Left click: Click to select the model, platform, or blank space

4.4.2 Left click and hold on

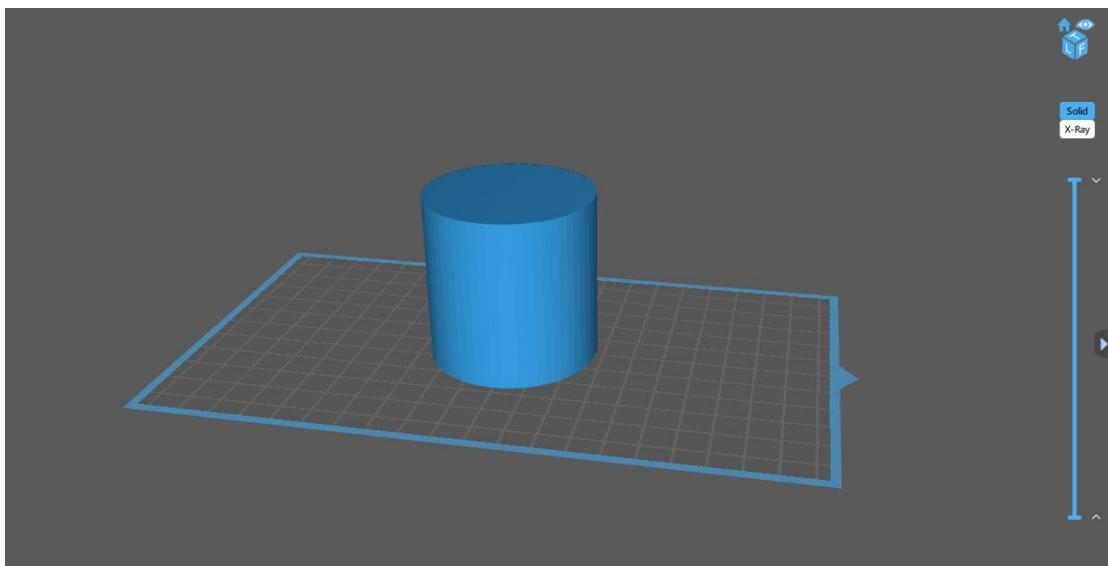
(1) Left click model can move the model on the platform.

(2) Left click on the platform or blank space can move the platform

4.4.3 Right click and hold on: Rotate the platform.

4.4.4 Scroll the mouse wheel : Zoom view

4.5 Views



4.5.1 Move

(1) Hold down left button of mouse and drag

(2) Holds down the mouse wheel and drag

4.5.2 Rotate: Hold down right button of mouse and drag.

4.5.3 Scale: scrolling mouse wheel



4.5.4 Home: Make platform right front view face user



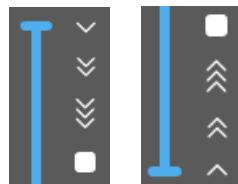
4.5.5 Switching orthographic and perspective



4.5.6 Top/front/left view



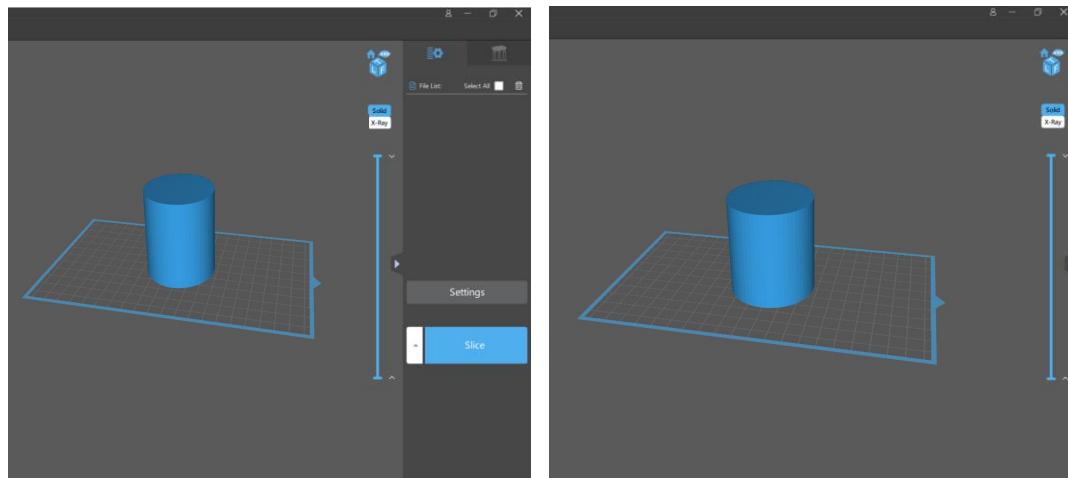
4.5.7 Solid and X-ray perspective



4.5.8 Model bar: Real-time cross-sectional view of the model; up and down have one, two, three times the speed of the slice play and pause buttons.



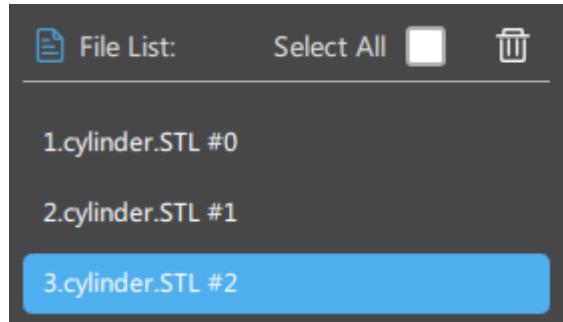
4.5.9 Expand/Hide: Expand and hide the content on the right



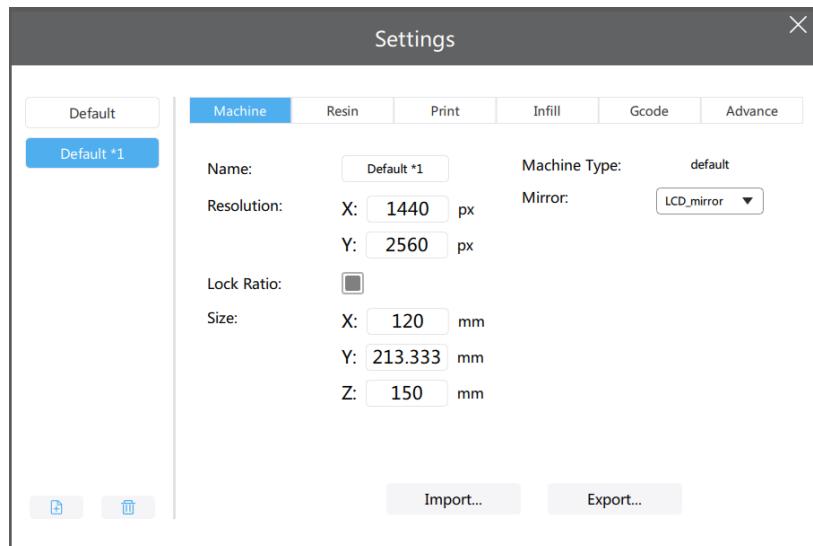


4.6 Common settings

4.6.1 File List: All the models on the platform are listed in the file list, and can be edited or deleted by choosing all/single models.



4.6.2 Settings Slicing settings:

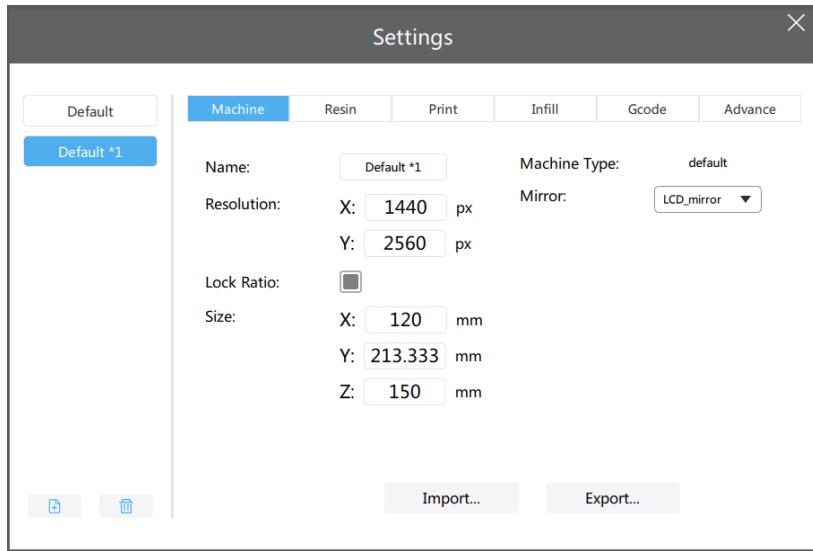


You can click on the button in the lower left corner, add your own printer, and then set the relevant parameters.

<Import>: Import resin configuration file ;

<Export>: Export resin configuration file;

(1) Machine



<**Name**>: Printer name, you can enter the name directly for modification;

<**Resolution**>: The resolution of projector or LCD screen, which directly affects the dimensional accuracy of printing;

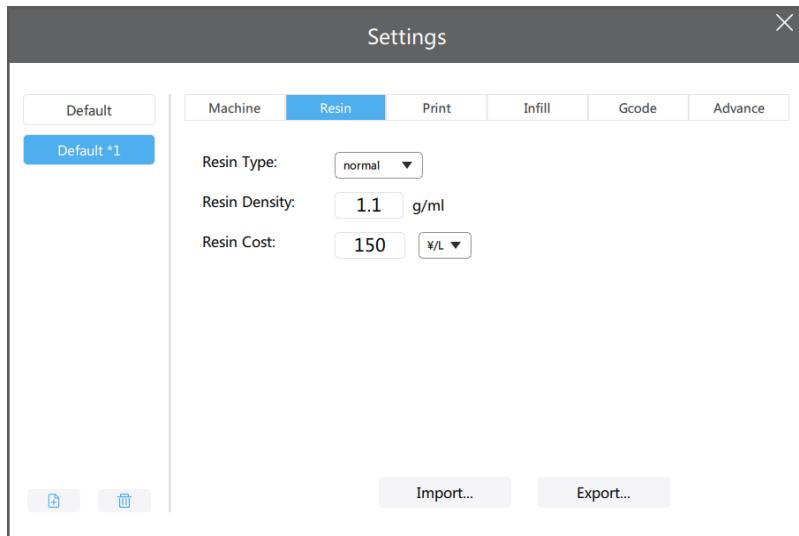
<**Lock Ratio**>:

Normally, the size ratio of the XY platform is equal to the resolution ratio, that is, the locking ratio.

In some cases, such as DLP projector due to accuracy or machine design reasons, the size of XY platform is not necessarily the same as the resolution ratio, it can input the actual projection size.

<**Size**>: Maximum print size of machine.

(2) resin

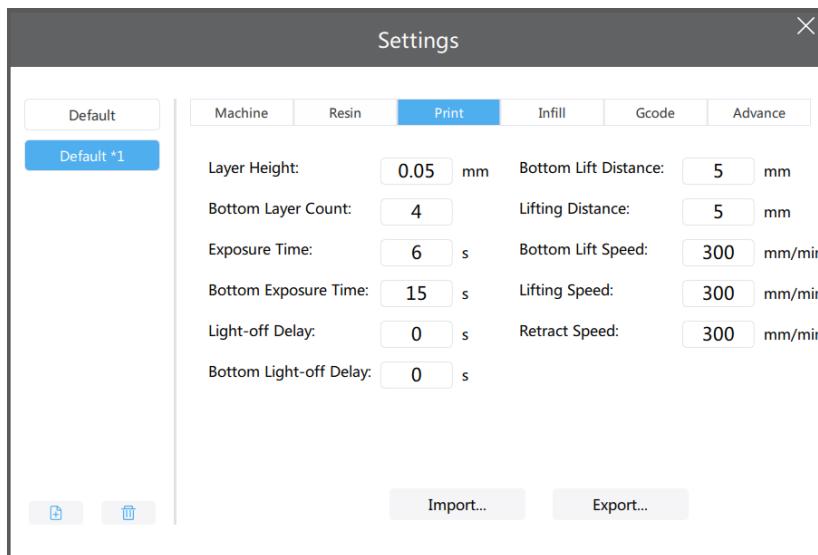


<Resin Type>: Different resin types have different parameters, and some resin parameters recommended by enterprises have been integrated..

<Resin Density>: Resin density, used to calculate weight;

<Resin Cost>: Resin price, used to calculate costs;

(3) Print



<Layer Thickness>: Thickness of each layer, such as 0.025/0.05/0.1mm.

<Bottom Layer Count>: The number of solidified layers should be strengthened at the bottom, in order to make the model stick to the platform better.

<Exposure Time>: Exposure Time of normal Layer

<Bottom exposure time>: The exposure time of the bottom layers is longer than that of the normal layers, so that the resin can be cured thoroughly and the model can adhere to the platform as far as possible.

<Light-off Delay>:

Final light-off time = maximum value (total time of Z-axis up and down movement, light-off delay time). For example, total Z-axis up down movement cycle is 6 seconds,

If "light-off delay" is set to 10 seconds, final light-off time is 10 seconds.

If "light-off delay" is set to 1 second, final light-off time is 6 seconds.

<Bottom Light-off Delay>: Light-off delay time of the bottom layers.

<Bottom Lift Distance>: When printing the bottom layers, the lifting distance of the forming platform.

<Lifting Distance>: When printing the normal layers, the lifting distance of the

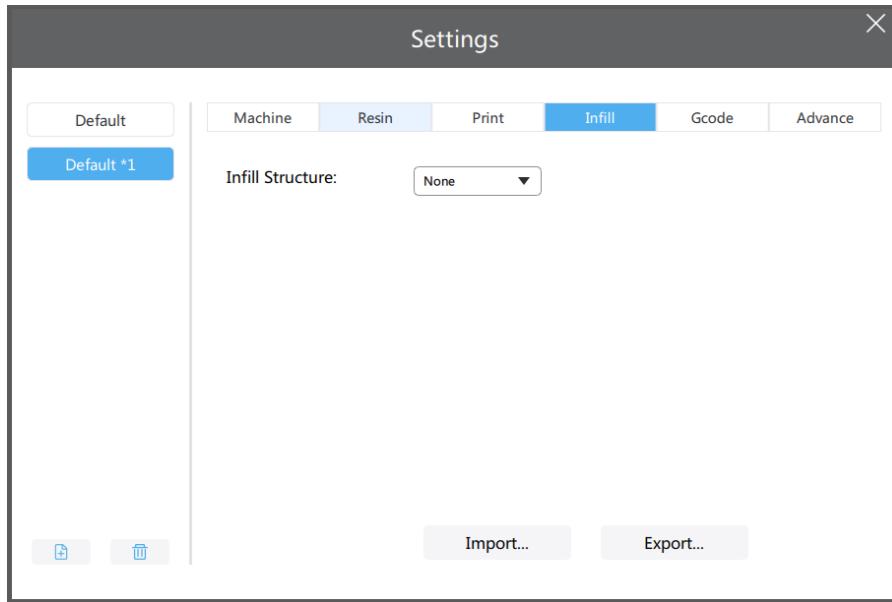
forming platform.

<Bottom Lift Speed>: When printing the bottom layers, the lifting speed of the forming platform.

<Lift Speed>: When printing the normal layers, the lifting speed of the forming platform.

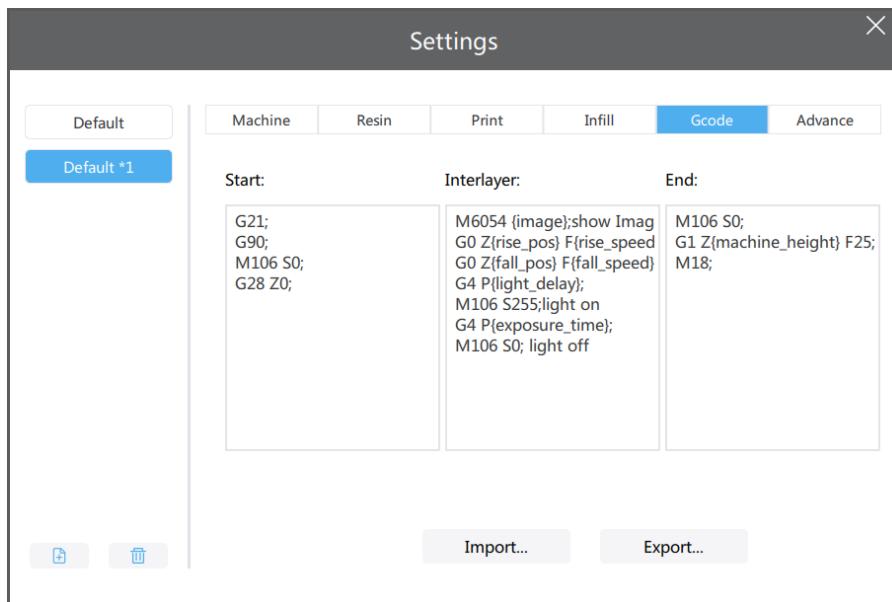
<Retract Speed>: The downward speed of the forming platform

(4) Infill



<Infill Structure>: The type of infill in the model, such as the grid structure.

(5) Gcode



<Start>: Preprocessing commands executed at the beginning of printing. (Modifiable)

<Interlayer>: Commands executed on each layer during printing. (Modifiable)

{image} The name of the resulting exposure image

{raise_pos} Corresponding to the raised position, is an absolute coordinate value, value = exposure position + lift height

{raise_speed} Is the lifting speed, the lifting speed = the bottom lifting speed or the lifting speed

{fall_pos} Corresponding to the falling position, is an absolute coordinate, value = exposure position

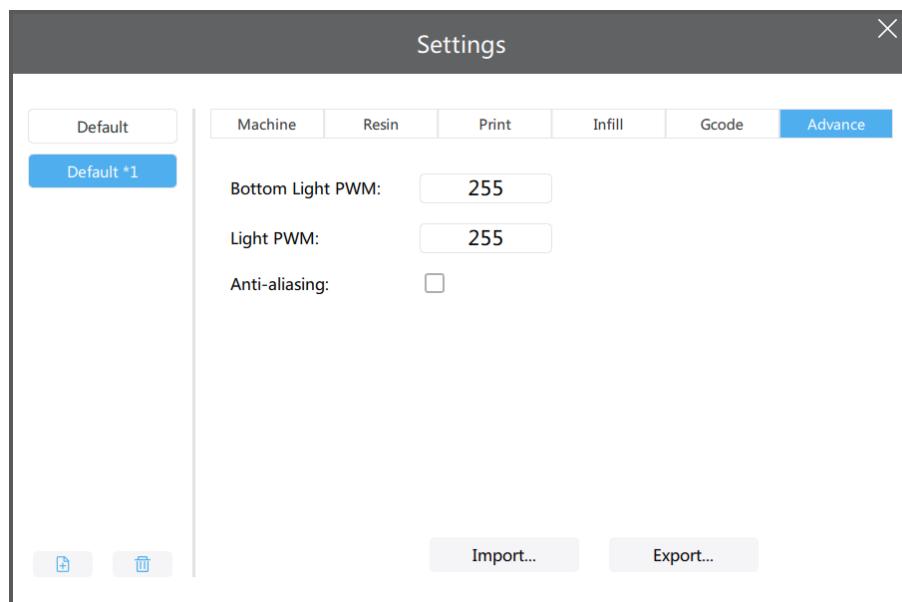
{fall_speed} Is the falling speed, the falling speed = the bottom falling speed or the falling speed

{exposure_time} Corresponding to the underlying exposure time or exposure time, the unit is ms

<End>: Command executed at the end of printing. (Modifiable)

{machine_height} corresponds to the height of the machine size

(6) Advanced

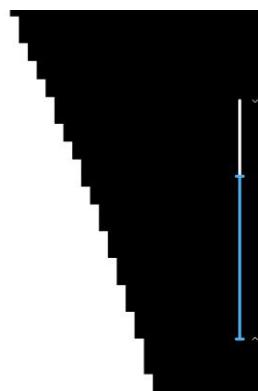


<Bottom Light PWM>: The intensity of the light source when printing the bottom layers.(some printers support this command)

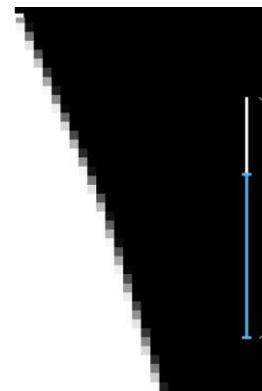
<Light PWM>: The intensity of the light source when printing the normal layers.(Some printers support this command)

<Anti-aliasing>: Turn on anti-aliasing to make the model surface smoother.

As shown below: anti-aliasing is not selected, , anti-aliasing is selected



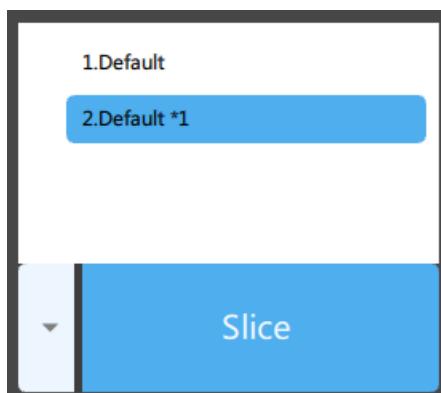
No



X 4

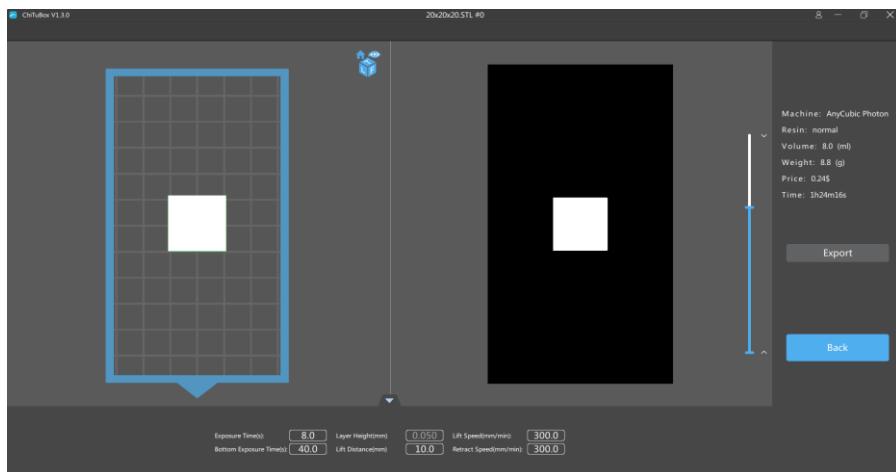
4.6.3 Slice

Click on the “Slice”to start the model slicing process. (you can choose the corresponding parameters to slice)

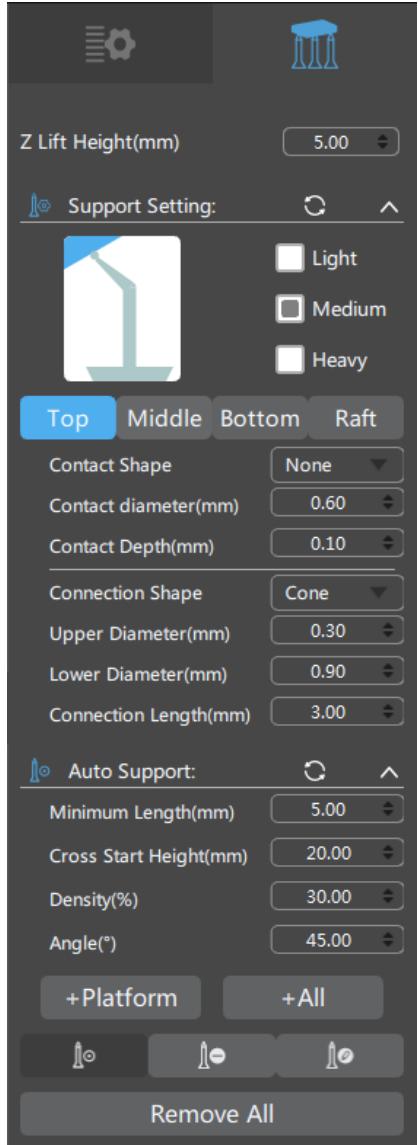


4.6.4 Slice Preview

Support for slice layer and solid model preview.



4.7 Support setting



4.7.1 Z Lift Height (the default is 5mm), can be customized

4.7.2 Support setting (refresh fold expand)

(1) Select the size of the support, there are three choices: Light, Medium and Heavy.

(2) Top: Set the parameters of the top of the support, which can be customized by the user.

(3) Middle: Set the parameters of the middle of the support, which can be customized by the user.

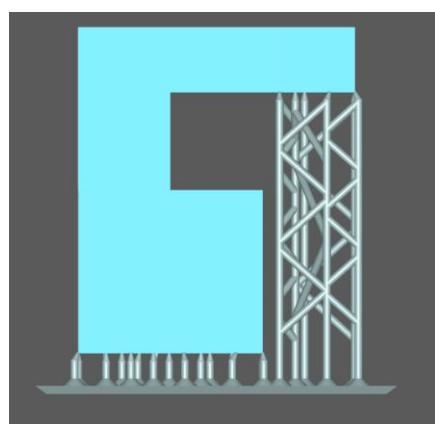
(4) Bottom: Set the parameters of the bottom of the support, which can be customized by the user.

(5) Raft: Set the parameters of the raft, which can be customized by the user.

4.7.3 Auto support (refresh fold expand) : Set the parameters of the auto support, which can be customized by the user.

(1) **+Platform** Click this button to automatically add support to the model (no support will be generated on the model).

(2) **+All** Click this button to automatically add support to the model (support is also generated on the model).



+Platform



+All

4.7.4 Add Support: Add support in manual mode.

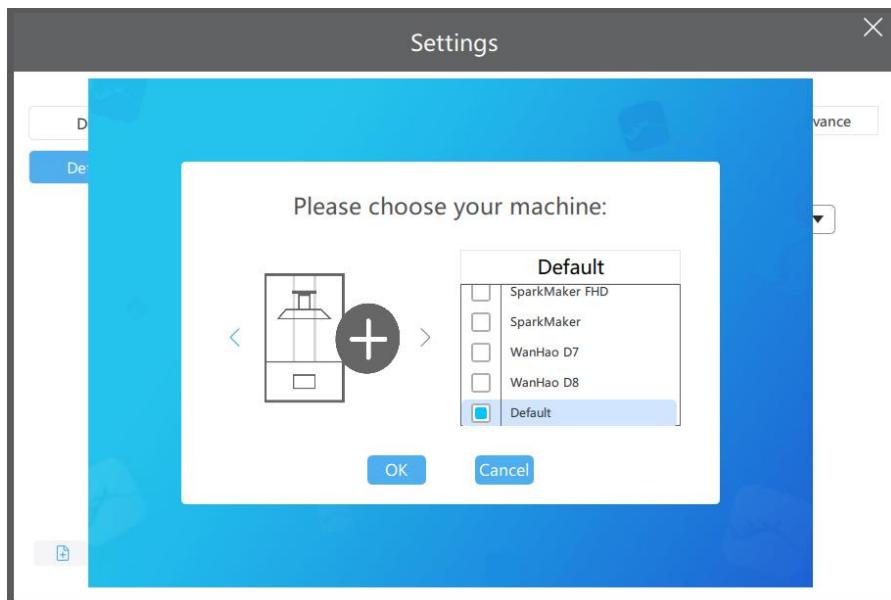
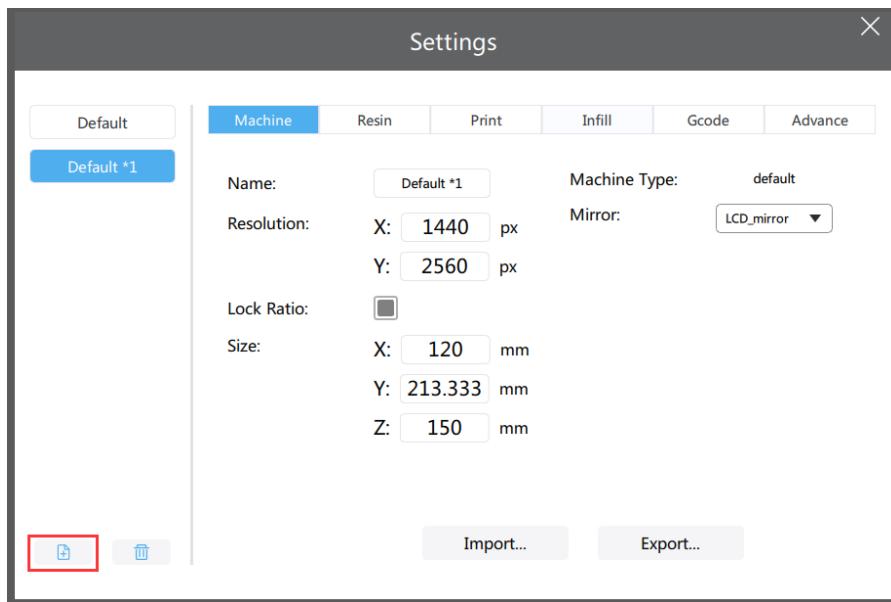
4.7.5 Delete support: Delete support in manual mode.

4.7.6 Edit Support: Edit selected support.

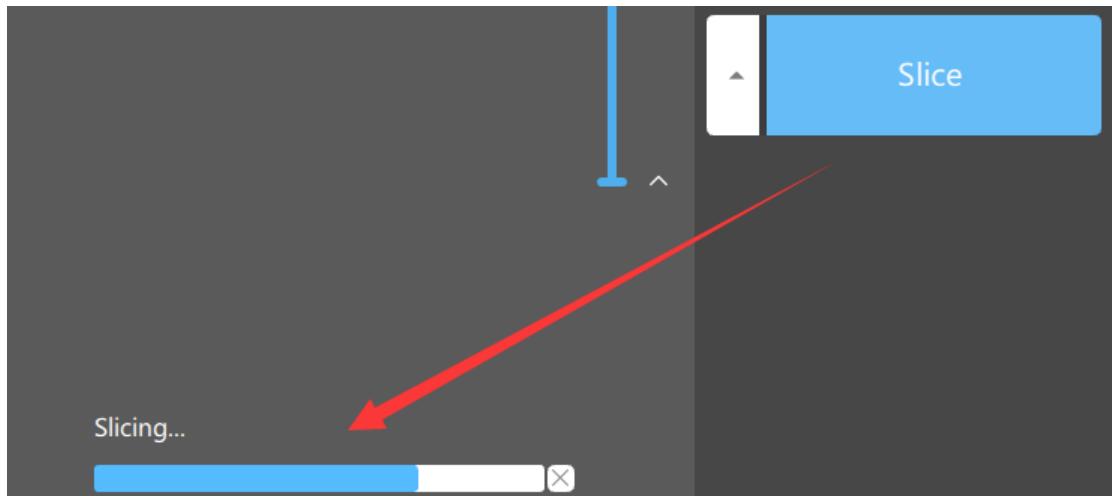
4.7.7 Remove all: Remove all support.

4.8 Printing process

4.8.1 Settings Add new printer(Or select an existing printer) in the settings menu and set the parameters. If you don't have your machine in the list, you can choose Default and set the parameters yourself.



4.8.2 Slice: After setting all the parameters, click the slice menu.



4.8.3 Preview and Export: After the slice is finished, it will automatically enter the preview mode(drag the upper slider to preview the layer). you can save the slice file or return to re-edit.

