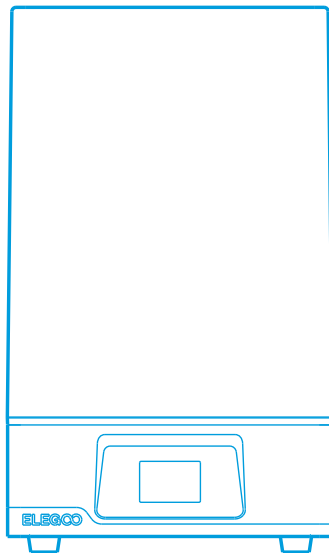


ELEGOO

● **Jupiter SE**
3D Printer



User Manual

Upon receiving the product, please confirm that the device is intact and all accessories are included. If you encounter any issues during installation, operation, or maintenance, please contact the ELEGOO after-sales team for professional support through the official channels below:

1. Visit our dedicated support page: <https://www.elegoo.com/pages/contact-support>. (We recommend copying the link and opening it in your browser.)
2. Scan the QR code below for personalized, one-on-one assistance.



(Note: To ensure optimal performance, each ELEGOO product undergoes rigorous printing tests before shipping. You may notice minor surface scratches upon delivery; this is normal and does not affect functionality. Please use your product with confidence.)

Notice:

- Please keep the 3D printer and its accessories out of the reach of children.
- Please fill the resin tank no less than 1/3 of its volume, but do not exceed the MAX line position.
- Please place the printer in a dry environment and protect it from rain and moisture.
- If you run into an emergency during use, please turn off the power supply of the 3D printer first.
- Please use the printer indoors and avoid direct sunlight and a dusty environment.
- Please keep the original packaging box for 30 days for return/exchange (only ELEGOO original packaging boxes are accepted).
- If the printing fails, you need to clean the excess cured resin in the resin tank and change the resin, otherwise, it may cause damage to your printer.
- When operating the 3D printer, please wear a mask and gloves to avoid direct skin contact with the photopolymer resin.
- If the release film in the resin tank is whitened, scratched, or has no elasticity, the printing failure rate is high, please replace the release film in time.
- Please use 95% (or higher) ethyl alcohol or isopropyl alcohol to wash your model unless you are using water washable resin.
- Please note that the Mylar tape surrounding the screen is not completely airtight. In case of resin drips during use, it is crucial to promptly clean them to prevent resin infiltration and potential screen damage.
- To maintain the cleanliness, durability, and protective performance of the LCD screen, it is necessary to timely replace parts under the following conditions: aged or damaged tape, corrosive damage, and damaged release film.
- If you have any problems with the printer, please contact us at 3dp@elegoo.com. Please do not disassemble or modify ELEGOO 3D printers by yourself, otherwise, the warranty will expire, and damage caused by personal operating errors need to pay for repairs.

Contents

3D Printer Tech Specs	01
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Printing Parameter

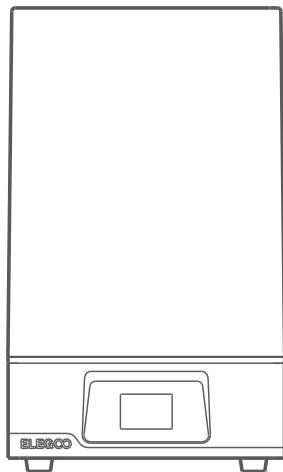
- System: EL3D-3.0.1
- Operation: 3.5-inch Touch Screen
- Slicer Software: ELEGOO SatelLite
- Connectivity: USB Interface

Hardware Specification

- Dimension: 479.9mm(L)*377.4mm(W)*657.5mm(H)
- Build Volume: 277.848mm(L)*156.264mm(W)*300mm(H)
- Package Size: 870mm(L)*495mm(W)*475mm(H)
- Gross Weight: 26.6KG
- Net Weight: 19.5KG

Printing Specification

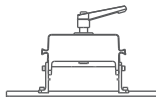
- Technology: MSLA Stereolithography
- Light Source: COB+Refractive Light Source (wavelength 405nm)
- XY Resolution: 51*51um (5448*3064)
- Z-axis Accuracy: 0.02mm
- Layer Thickness: 0.01-0.2mm
- Printing Speed: MAX 70mm/H
- Power Requirements: 100-240V 50/60 Hz 24V 7.5A



Jupiter SE 3D Printer



USB Air Purifier



Build Plate



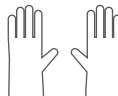
Resin Tank



U Disk



Mask



Gloves



Funnel



Backup Screws



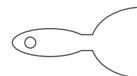
User Manual



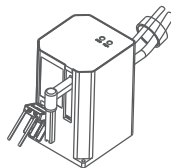
Adapter



Tool Kit



Scraper



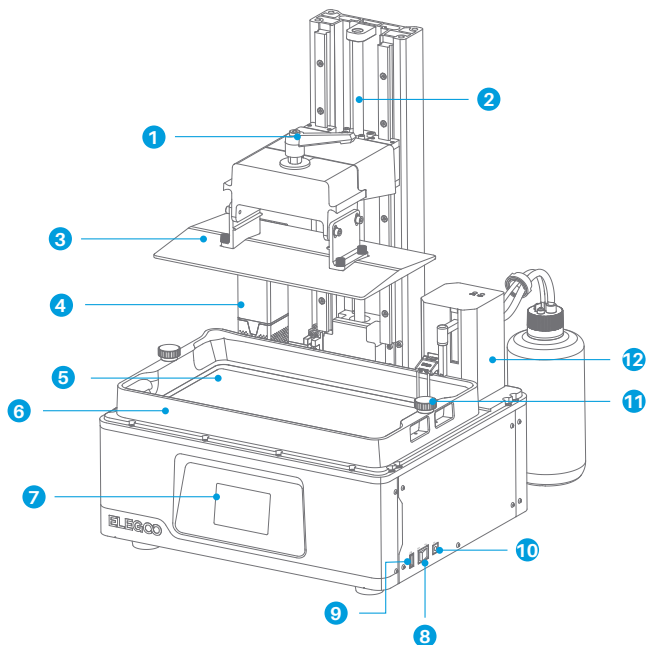
Auto Resin Feeding
Main Module



Bottle Cap
Module*2



Cover Handle*2



1
Rotary Handle

2
Z Axis

3
Build Plate

4
USB Air Purifier

5
LCD Display
Screen

6
Resin Tank

7
Touch Screen

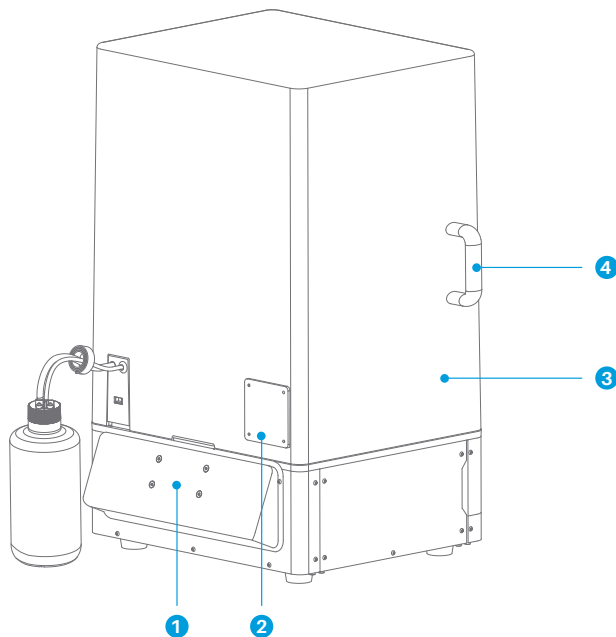
8
Switch

9
USB Interface

10
DC Socket

11
Screw Knob

12
Auto Resin
Feeding Module



1

Light Source Module

2

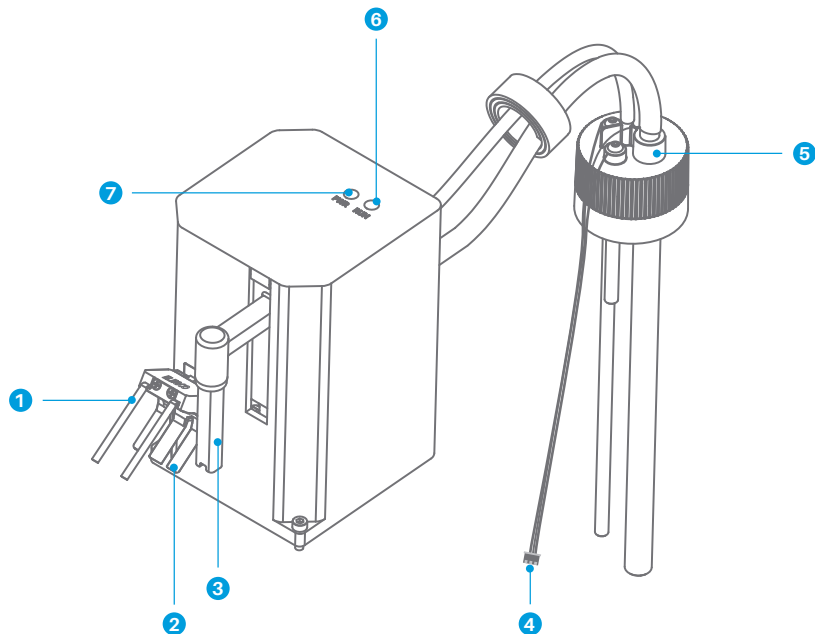
Extension Port (Connect peripherals, such as a mini heater and other compatible printer accessories)

3

Anti-UV Cover

4

Cover Handle



1
Probe

2
Probe Platen

3
Resin Tube

4
Signal Detection
Terminal

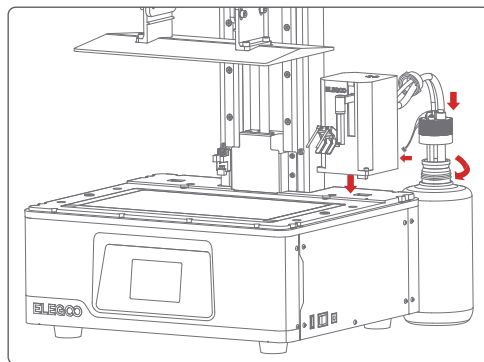
5
Bottle Cap

6
Red Status Indicator

7
Green Power
Indicator

1. Module Installation

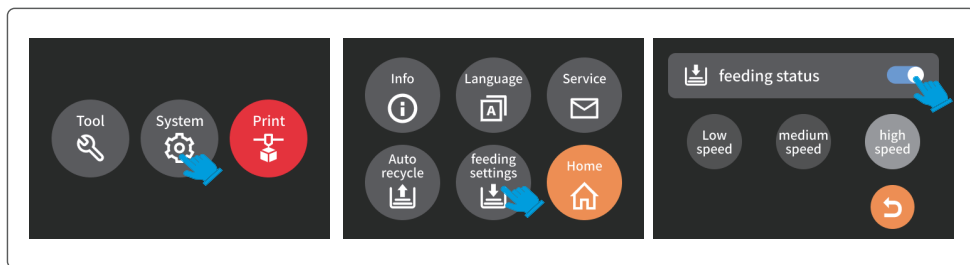
Remove the resin tank, insert the automatic resin feeding module into the right USB port, and fix it with 2 screws. Insert the bottle cap module into the ELEGOO 1000g resin bottle and tighten it, insert the two hoses into the corresponding ports, and insert the signal detection terminal on the bottle cap into the interface on the back of the main automatic resin feeding module. (See Figure 1)



(Figure 1)

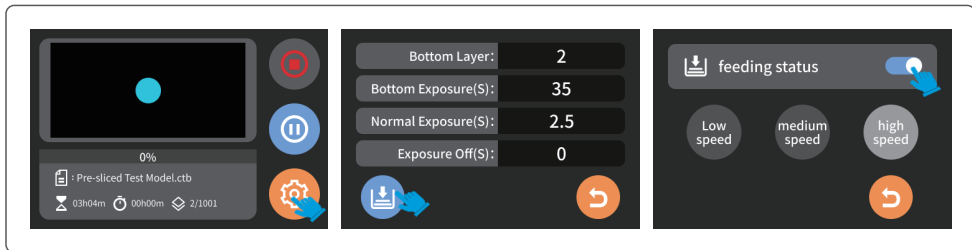
2. Instructions for Use

2.1 Before use, please make sure that the resin in the bottle is sufficient. This module can be used to refill resin and recycle resin. Click "System" - "Feeding Settings" to enter the page, and set the default state and default speed of the feeding function. (See Figure 2)



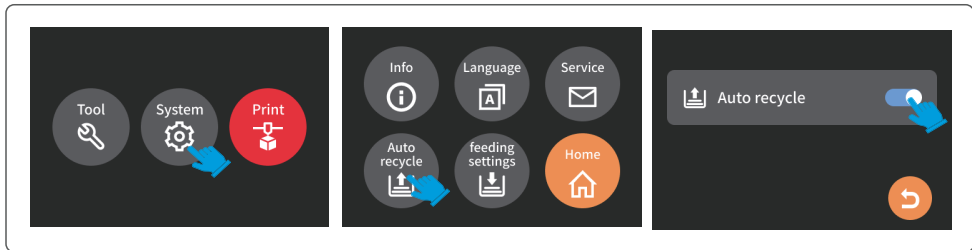
(Figure 2)

When the automatic resin feeding function is used, during the printing process, if the resin is detected to be insufficient, the device will automatically refill the resin. In the settings of the printing interface, the automatic resin feeding status of this printing can also be changed. (See Figure 3)



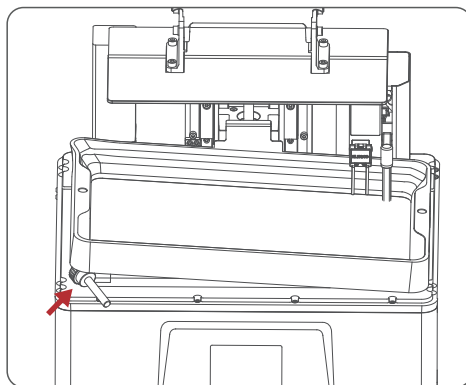
(Figure 3)

2.2 Click "System" - "Auto Recycle" to enter the automatic resin recycling page. (See Figure 4) The "automatic resin recycle" function is used: the resin tube moves down to the bottom of the resin tank and starts to recycle the resin until the resin bottle is detected to be full of resin, and the recycle stops. If there is still a lot of resin in the resin tank, please replace the resin bottle, and then turn on the "Auto Recycle" function to recycle the resin.



(Figure 4)

During the resin recycling process, if there is a small amount of resin remaining in the resin tank that cannot be recycled, please remove the screw knobs on the resin tank and place one of them under the resin tank for more complete recycling of the resin. (See Figure 5)



(Figure 5)

Precautions:

1. The device can automatically refill resin only in the printing state, and can automatically recycle resin only in the non-printing state.
2. The green light of the device indicates that it is powered on; The red light indicates that there is not enough resin in the resin tank and it needs to be refilled.
3. When printing, the resin bottle is detected to be insufficient, if you need to continue to use the automatic resin feeding function, please replace the resin bottle in time.
4. If you use non-ELEGOO resin, please test the resin by submerging the resin into the two probes of the detection module before printing. If the red indicator light cannot be turned off normally, the current resin cannot be used in this device.
5. After installing the bottle cap, do not vigorously shake or invert the resin bottle. If the inside of the cap is stained with resin, clean it immediately. To prevent the resin from entering the air tube or blocking the mouth of the bottle, causing the automatic resin feeding module to malfunction or even be damaged.

No.1 Automatic resin feeding does not take effect during printing

1. Check whether the automatic resin feeding function is enabled by default;
2. Check whether the USB interface is plugged in properly, and re-plug the installation module. If the green indicator light is always on, it is normal;
3. Check whether the probes are mistakenly connected. When the resin liquid level is lower than the probe, the red indicator light should be on.

No.2 There is enough resin in the resin bottle, but the pop-up window shows that the resin bottle is empty

1. The signal detection terminal is not inserted;
2. The screw fixing the signal line on the bottle cap is loose.

No.3 The resin in the resin tank is sufficient, but the device continues to add resin

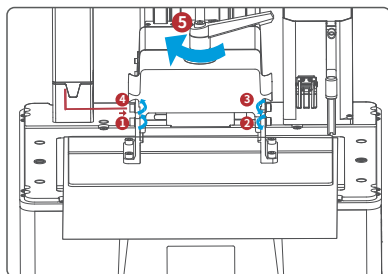
1. It is not installed in place, causing the probe is not correctly extended into the resin tank, and re-install according to the installation steps in the instructions;
2. After the resin in the resin tank has passed through the probe, the red indicator light does not turn off. This device does not support the use of this resin. Replace other resins and test again.

No.4 The automatic resin recycle function is turned on, but the resin cannot be recycled

1. Check whether the USB interface is plugged in properly, re-plug the installation module, if the green indicator light is always on, it is normal;
2. The signal detection terminal is not inserted;
3. The screw fixing the signal line on the bottle cap is loose.

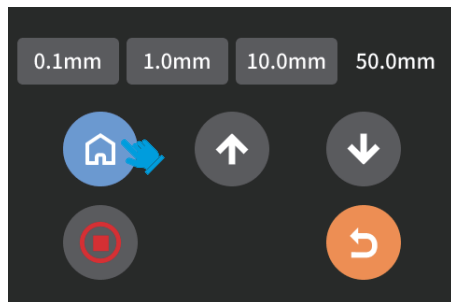
No.5 The resin bottle is full, but the resin continues to be recycled

1. The signal detection terminal is not inserted;
2. This device does not support the use of this resin, replace other resins and test again.

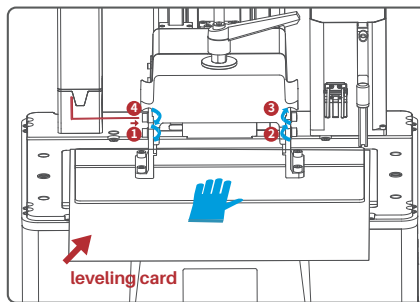


(Figure 6)

1. Lock the rotary handle (5), then loosen the four fixing screws (1 3 2 4) of the build plate until the build plate can move freely. (See Figure 6)



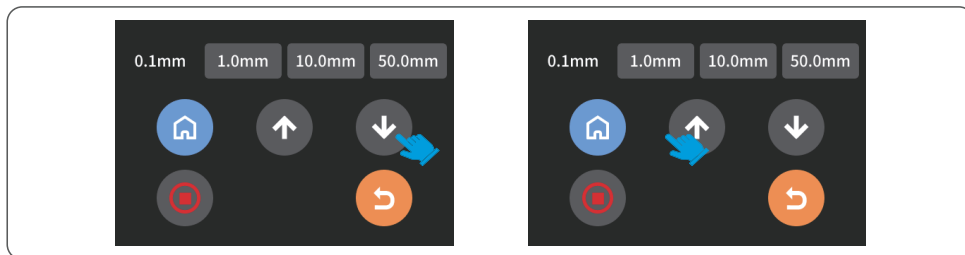
(Figure 7)



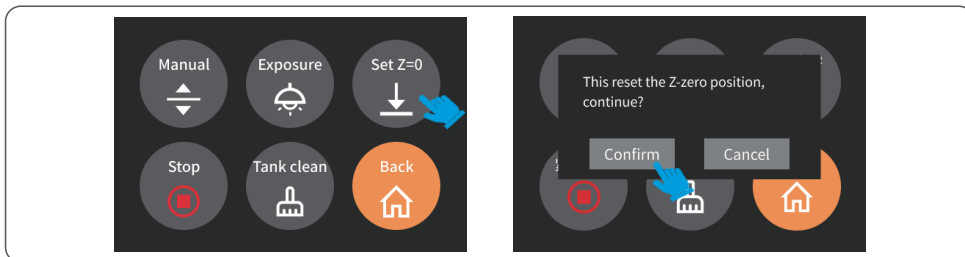
(Figure 8)

2. Place a leveling card between the build plate and the LCD screen, then click "Move Z axis to zero" (See Figure 7). After the printer stops moving, press the top of the build plate with one hand, and lock the four fixing screws (1 3 2 4) with the other hand. (See Figure 8)

3. Pull the leveling card. If you find there is a slight resistance during this process, you can go directly to step (Note: If there is no resistance when pulling out the leveling card, please click the Z-axis "down" button (in steps of 0.1mm) until there is a slight resistance to pull the leveling card. If there is too much resistance or the leveling card cannot move, please click the Z-axis "up" button (in steps of 0.1mm) until there is slight resistance to pull the leveling card.) (See Figure 9)

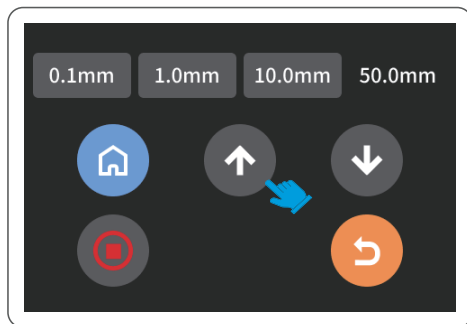


(Figure 9)



(Figure 10)

4. After completing the above operations, back to the previous menu, and click "Set Z=0", then a confirmation pop-up window will appear in the interface, click "Confirm" to complete the setting. At this time, the current Z-axis position is reset to the new initial height of the first printing layer. (See Figure 10)



(Figure 11)

5. Click back to the "Manual" page (pay attention to the position of the probe when moving the build plate, please manually press down the probe before lifting to avoid damage to the device), and click the Z-axis "up" button to raise the Z-axis by a certain distance. (about 100mm) (See Figure 11)

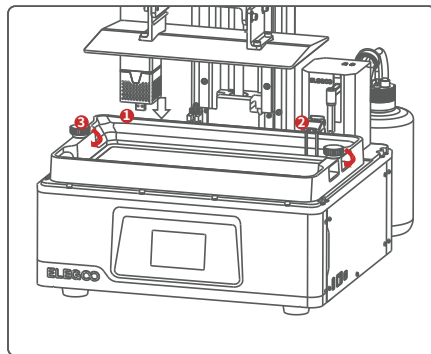


(Figure 12)

6. Take away the leveling card, and click the "Tool" - "Exposure" - "Next" buttons to test the LCD screen and LED light source. If the LCD can display "ELEGOO TECHNOLOGY www.elegoo.com", then the 3D printer works perfectly. At this time, the leveling is completed. (See Figure 12)

1. Model Printing

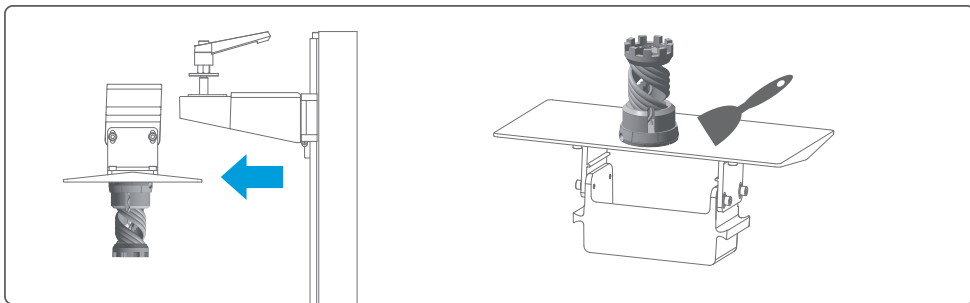
Plug the USB air purifier into the left USB port (See Figure 13 ①), place the resin tank so that its inner edge presses the probe platen until the probe is inside the resin tank (See Figure 13 ②), and tighten the screw knobs on both sides (See Figure 13 ③). Then slowly add resin to the resin tank (do not exceed the MAX line), cover the printer and insert the U disk into the printer and select the pre-sliced test model for printing.



(Figure 13)

2. Model Processing

After the printing is completed, wait until the resin on the build plate stops dripping, then loosen the rotary handle of the build plate to remove it and remove the model with a scraper. You can use ELEGOO's cleaning and curing machine to post-process the model. (See Figure 14)



(Figure 14)

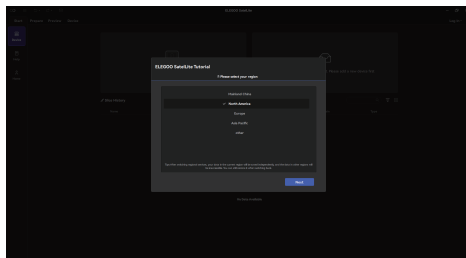
You can use the ELEGOO SatelLite installation package on the USB drive for the printer.

1. Installing ELEGOO SatelLite

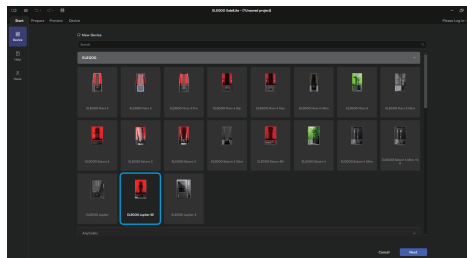
Select the appropriate slicer version from the USB drive or download it from the website (www.elegoo.com) and install it on your computer. When using the software for the first time, you need to select your language and region. If you want to switch regions, please restore the factory settings. After switching regional services, your data in the current region will be saved independently, and the data from other regions will not be accessible. You can still restore it after switching back. (See Figure 15)

2. How to use ELEGOO SatelLite

After installation is complete, run ELEGOO SatelLite. Select ELEGOO Jupiter SE as your default printer, and tap "Next" to enter the printer slice settings page. (See Figure 16)



(Figure 15)



(Figure 16)

3. ELEGOO SatelLite Settings

3.1 Device Configuration Parameters

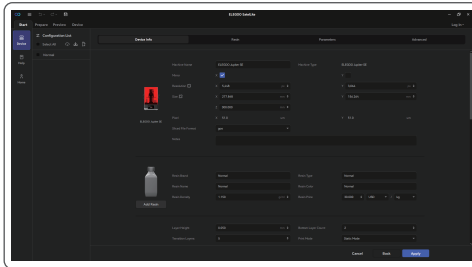
The default parameters do not need to be changed (see Figure 17). X indicates the maximum print size in the X-axis direction, and so on.

3.2 Resin Parameters

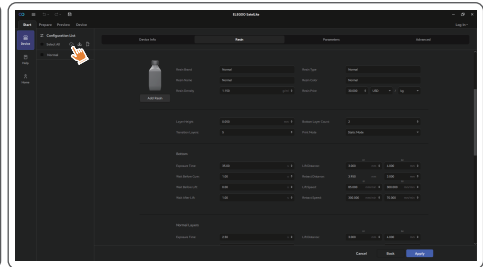
Resin Presets: In the upper-left Configuration List, Click  to open the Official Resin Library (see Figure 18). Choose your resin, then click "Load Selected" to automatically apply its preset slicing parameters (see Figure 19). Presets

Resin Density: 1.15 g/ml

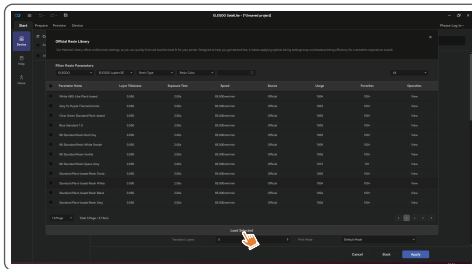
Resin Cost: You can input the real price of the resin you purchased, and the slicing software can estimate the resin costs for each model you print.



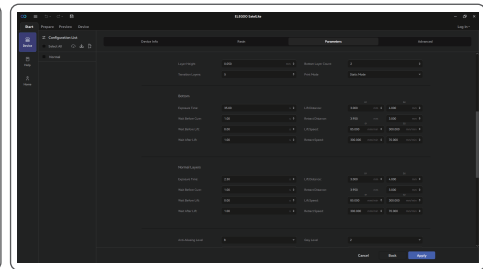
(Figure 17)



(Figure 18)



(Figure 19)



(Figure 20)

3.3 Parameters (See Figure 20)

Layer Height: The recommended height for each layer is 0.05 mm. However, you can set it between 0.01 mm and 0.2 mm. The higher the layer height you set, the longer the exposure time required for each layer.

Bottom Layer Count: Set the number of initial print layers. If the bottom layer count is n , the exposure time for the first n layers is the bottom layer exposure time. The default setting is 2 layers.

Transition Layers: The transition layers makes the bonding between the layers tighter. Except for the exposure time, other parameters of the transition layer are consistent with those of the normal layer.

Print Mode: The software presets three different print modes. Select a print mode according to the model and speed. The "Static Mode" is selected by default.

Bottom Layer Exposure Time: Set the bottom layer exposure time. Properly increasing the bottom layer exposure time helps to increase the bonding strength between the printed model and the build plate. The default setting is 35s.

Normal Layer Exposure Time: The exposure time of a normal print layer is set to 2.5s by default. The higher the print layer height is set, the longer the required time.

Wait Before Cure: The time interval between the start of coming to rest of the build plate after moving to the printing surface and the start of exposure. The default value is 1s.

Wait Before Lift: The time interval between the end of print exposure and the start of moving away from the exposure surface by the build plate. The default value is 0s.

Wait After Lift: The time difference between the start of coming to rest of the build plate after lift and the start of retraction. The default value is 1s.

Lift Distance: During the printing process, the distance that the build plate leaves the printing surface each time is set to 3+4 mm by default.

Retract Distance: During printing, the retract distance of the build plate should not be changed without sufficient reason.

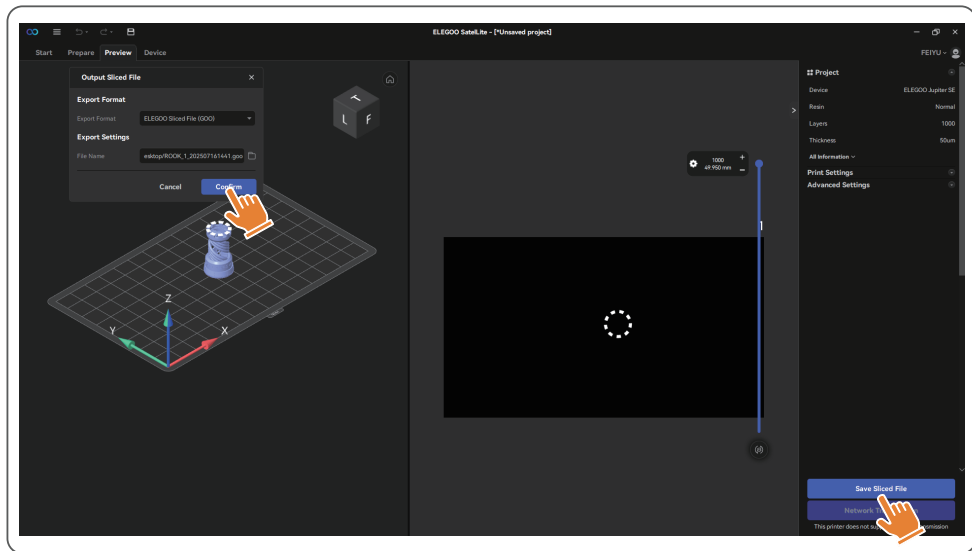
Lift Speed: During printing, the default speed of the build plate moving away from the printing surface is 85+300 mm/min.

Retract Speed: During printing, the movement speed of the build plate when it approaches the printing surface is set to 300+70 mm/min by default.

Note: The printing parameter examples listed in this manual are for reference only. In actual applications, please contact the official after-sales support for parameter confirmation based on factors such as the device model and resin (including type and color) used.

4. Saving the model

After setting all parameters, tap "Slice". When slicing is complete, tap "Save Sliced File" to export the sliced file and copy it to a USB drive. Then, insert the USB drive into your printer and start printing. (See Figure 21)



(Figure 21)

1. Model doesn't stick to the build plate

Bottom layer exposure time is too short, please add more time.

Model bottom has very small contact with the build plate and please add more bottom layers.

2. Model layer breakage

Printer is shaking during printing.

Release liner film is very loose due to long-time usage and need to be changed.

Build plate or resin tank is not fastened.

3. Abnormal Screen Exposure

If your printer doesn't work please contact us at 3dp@elegoo.com.

and as to better help and solve problems for you, please add your order ID in your email.

4. Printing failure

If the model was not completely printed or failed, there might be some residues left in the resin, which can be filtered out using a funnel when you save the rest resin back into its sealed bottle.

If you don't filter out the residues the build plate may cause damage to the LCD screen when you're printing next time.

As to the residual resin on the build plate and tank, you can clean and wipe them up using tissues.

5. Why do I receive an error message for residue detection when starting a print

First, check if the resin tank and build plate are properly secured. Then, try printing again. Avoid touching or causing vibrations to the machine during the self-check process before printing to prevent sensor calibration issues. If the error persists, clean the resin tank or filter the resin for any tiny foreign objects.

6. Why do I get resin insufficient or exceeding maximum volume error when starting a print

At the beginning of the print, the mechanical sensor detects the remaining resin in the tank. To ensure smooth printing, the resin level must be above one-third of the tank volume. Additionally, the resin level should not exceed the MAX line to prevent leakage. If the required resin amount for the model exceeds the current resin level in the tank, a pop-up message will prompt for resin refilling. If you encounter abnormal errors, recalibrate the device through the self-check process. Remember not to touch or vibrate the machine during self-check to avoid affecting sensor calibration.

7. How to adjust the printing speed

The release speed of the printer is fixed, with two modes available: fast and slow. However, regardless of the mode, the first 50 layers are always printed at a slower speed to ensure a higher success rate. The actual printing speed per layer also depends on the settings of the slicing parameters, such as layer thickness, exposure time, and wait time. Changing these parameters will alter the actual printing speed.

8. What should I do if resin leaks into the machine

Due to the nature of tilted release motion, it is not possible to achieve a completely sealed printing area. To address this, we have implemented several protective measures. When the sensor detects resin exceeding the MAX line, the print will stop, and a pop-up window will appear as a warning. There is a groove design below the build plate, where a small amount of leaked resin can flow into without affecting the machine. However, if a significant amount of resin spills occur, please disconnect the power promptly and open the front panel of the machine for cleaning.

- Please do not use sharp or pointy tools to scrape the resin tank to avoid damaging the release liner film.
- Please clean up the resin tank before changing the resin to another color.
- Before and after printing, clean the build plate with paper towels or alcohol to ensure that there are no bumps or burrs on the build plate.
- Before each printing, daily check the exterior of the machine and all mechanical parts for any obvious damage, defects, or abnormalities.
- Try to keep the printing environment at 25-30 degrees Celsius when printing, and ventilate the printing room as much as possible to facilitate heat dissipation of the machine and resin odor volatilization.
- If the Z-axis keeps making friction noise, please add some lubricant to the lead screw. Please check and apply lubricant grease at least every 2-3 months, and increase the frequency of application as the printing frequency increases.
- If you don't use the printer in the next 48 hours, please pour the remaining resin from the resin tank back into the resin bottle and seal it well. If there is any residue, please use a filter to filter it out.
- Check the condition of the release film before each printing, and observe whether the release film is loose, whether there are scratches or severe whitening on the surface, and if so, replace it in time. The release film is a vulnerable part, please replace it at least once every 1-2 months, and increase the replacement frequency as the printing frequency increases.
- Please be careful when removing the printing platform to prevent damaging the LCD screen. Do a good job of daily screen cleaning, and unplug the machine in time after printing. If there is a screen exposure problem or service life has seriously affected the print quality, please replace the screen in time.

● ELEGOO printers are covered by a warranty starting from the date of receipt. The warranty periods for different components may vary. For detailed information, please visit our official website at <https://www.elegoo.com/pages/refund-policy>.

● The free warranty does NOT include problems caused by self-disassembly and improper use, and wear and tear of the machine housing, etc.

- Telephone--0755-21005141
- Website--www.elegoo.com
- Address--101, No.30 Dahe Industrial Park,
Guancheng Community, Guanhu Street,
Longhua District, Shenzhen, China

ELEGOO