

MARS 3

3D Printer

www.elegoo.com



Thank you for purchasing ELEGOO Mars 3 3D printer.

This user manual applies to Mars 3 and Mars 3 Pro. We take Mars 3 as an example in this manual. Please unbox and inspect the printer upon receiving it. If you have any questions regarding the printer, Please contact us at 3dp@elegoo.com, facebook, or Instagram.

Please read the instruction carefully before you use the printer.

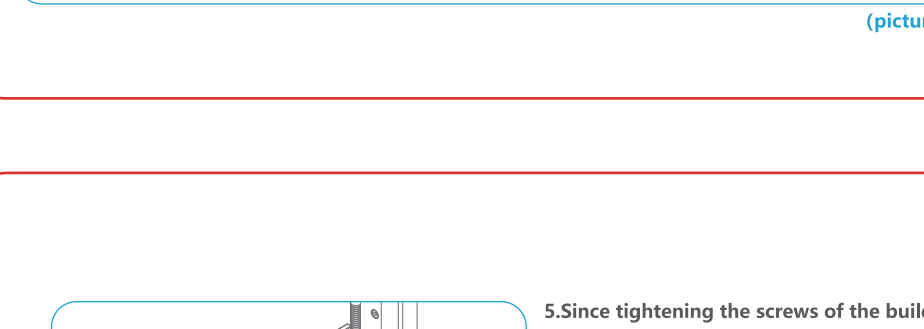
Software and multiple language instructions are available to download from www.elegoo.com/download.

Notice:

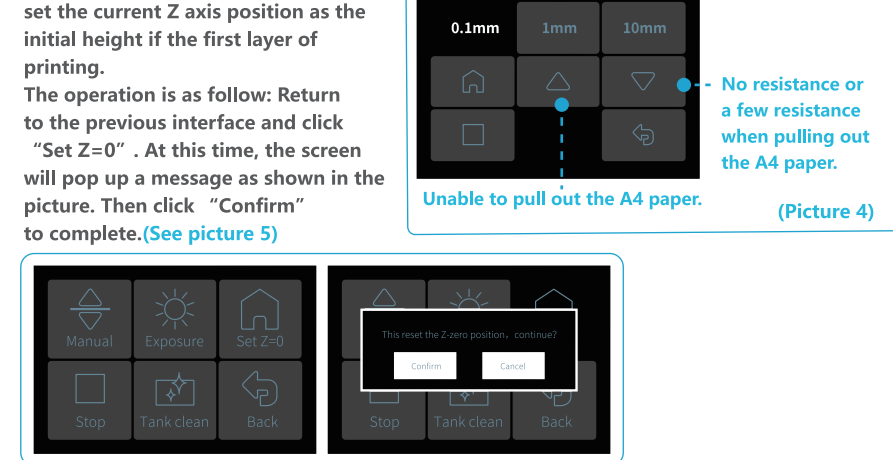
If you need technical support please contact us at 3dp@elegoo.com.

- Please keep the Mars 3 3D printer and its accessories out of the reach of children.
- When you use the printer for the first time, you would need to adjust it before printing (Unbox and Test).
- If the printing failed, you would have to clean the resin tank and change resin, otherwise it may cause damage to your printer.
- The capacity of the resin in the tank must not exceed the MAX line position.
- Please use 95% degree (or higher) ethyl alcohol or isopropyl alcohol to wash your model unless you are using water washable resin.
- Please use the printer indoors and avoid direct sunlight and dusty environment.
- Please keep your printer away from water or damp environment.
- Please wear a mask and gloves before using and avoid direct skin contact.
- If you want to print models with sharp edges please be careful when removing it from the build platform.

Packing List



Printer Components

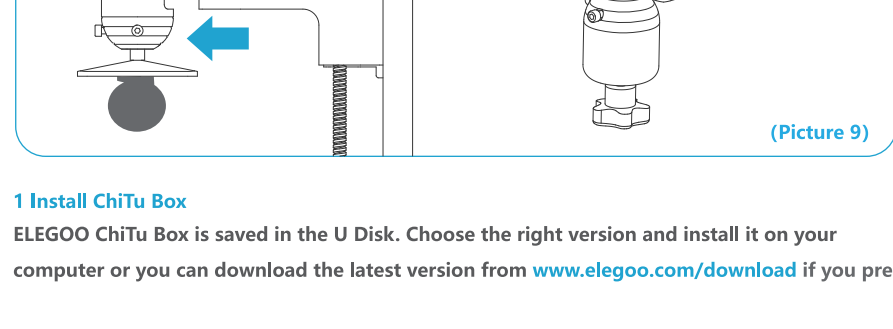


Mars 3 Tech Specs

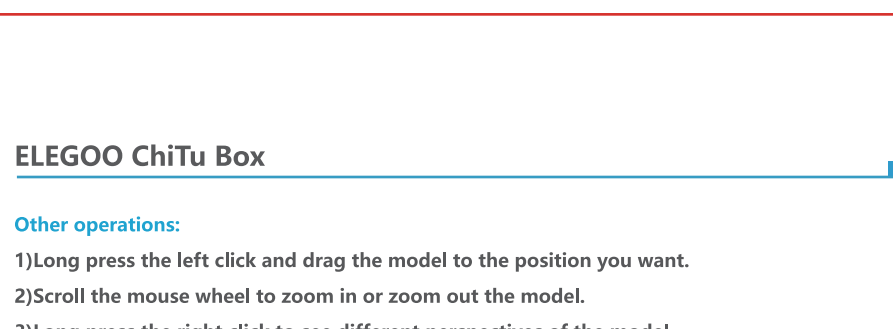
System: EL3D-3.0.1	
Operation: 3.5 Inch Touch Screen	Printing Parameter
Slider Software: CHITUBOX	
Connectivity: USB	
Technology: UV Photocuring	
Light Source: UV Integrated LED (wavelength 405nm)	
XY Resolution: 0.035mm (4098*2560)	
Z Axis Accuracy: 0.00125mm	Printing Specification
Layer Thickness: 0.01-0.2mm	
Printing Time: 1.5-3s per layer (30-50mm/H)	
Power Requirements: 100-240V 50/60Hz	
Dimension: 8.94in (L)*8.93in (W)*17.26in (H)	
22.7cm (L)*22.7cm (W)*43.85cm (H)	
Build Volume: 5.65in (L)*3.53in (W)*6.89in (H)	Physical Parameter
14.343cm (L)*8.96cm (W)*17.5cm (H)	
Weight: 11.5 lbs (5.2kg)	

Leveling

1. Take out the printer carefully and take off the plastic film.
2. Turn on the printer.
3. Please insert the build platform, fasten the rotary knob and loose the screws (see picture 1).



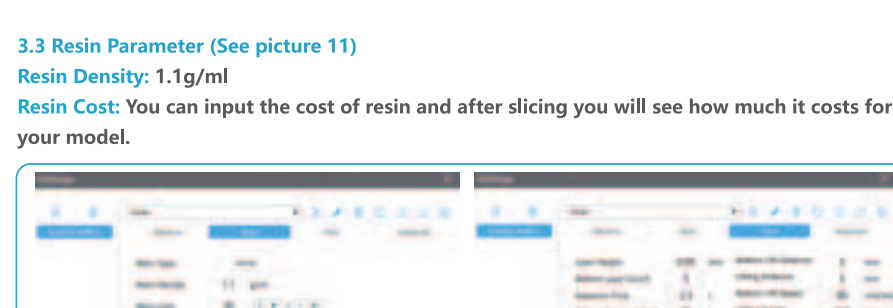
4. Remove the resin tank and put an A4 paper between the build platform and 4K LCD screen and click "Move Z axis to zero" (See picture 2). When the build platform stops please use one hand to press it and make sure it's in the central position then fasten it using the Allen Wrench. (See picture 3)



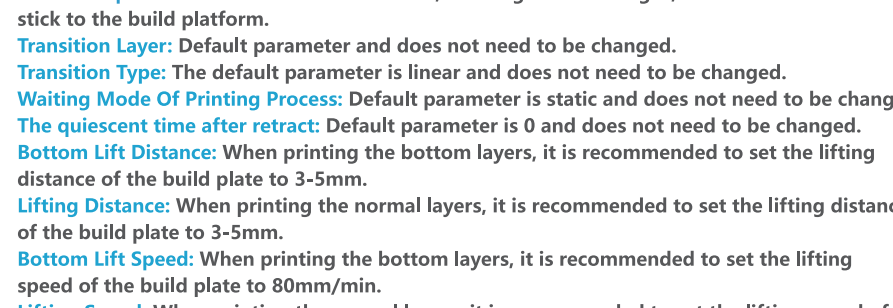
5. Since tightening the screws of the build plate it will be tighter when pulling out the A4 paper; at that time, you need to calibrate the height of the Z axis slightly again. If there is no resistance or only a few resistance when pulling out the A4 paper, click to descend the Z axis at the distance of 0.1mm. If the paper cannot be pulled out or the resistance is very high, then you should click to rise the Z axis at the distance of 0.1mm. If there is some resistance but you can still pull it out with slight efforts, then stop adjusting Z axis. (See picture 4)



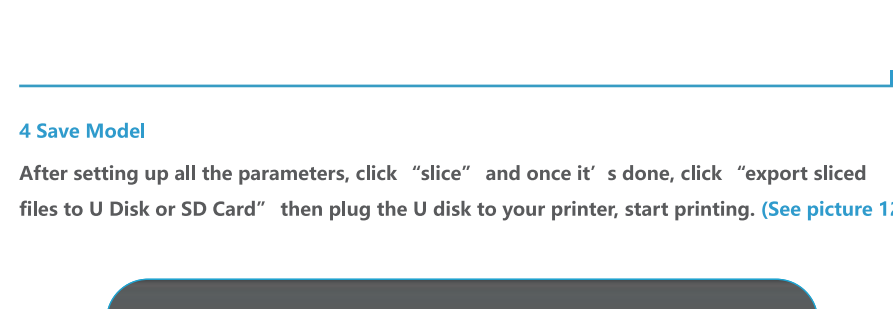
6. After the above leveling is completed, set the current Z axis position as the initial height if the first layer of printing. The operation is as follow: Return to the previous interface and click "Set Z=0". At this time, the screen will pop up a message as shown in the picture. Then click "Confirm" to complete. (See picture 5)



7. Press "10mm" -then press "up" for 10 times, then Z axis will go up about 100mm. (See picture 6)

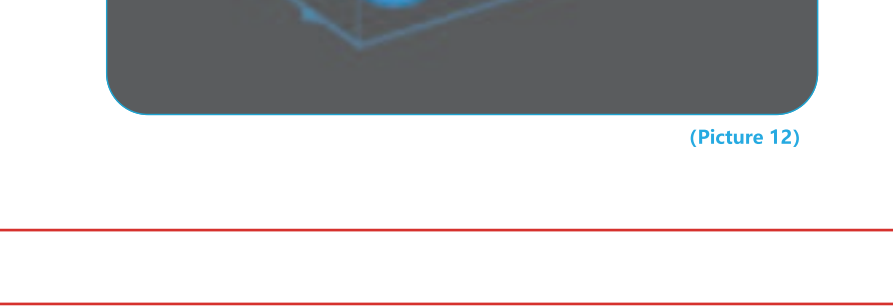


8. Test the lights by pressing "Tool" -> "Exposure" -> "Next" (See picture 7). If the 4K screen can display a complete "ELEGOO TECHNOLOGY www.elegoo.com" then the UV lights work perfectly.



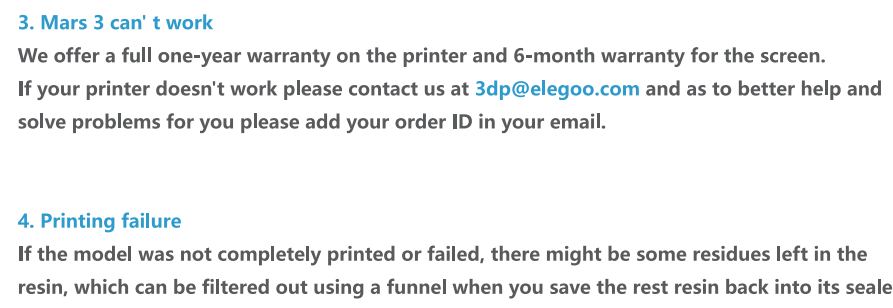
Print Test

1. Model Printing (Cover the machine with the anti-UV cover.)



2. Wash Your Print and Clean the Tank

Once printing is completed please wait until the resin on the build platform doesn't drop any more. Loosen the rotary knob and remove the build platform. Use scraper to remove the model and wash it with 95% degree (or higher) ethyl alcohol if you are using standard resin or ABS-like resin. (See picture 9)



3. Install ChiTu Box

ELEGOO ChiTu Box is saved in the U Disk. Choose the right version and install it on your computer or you can download the latest version from www.elegoo.com/download if you prefer.

4. How To Use ChiTu Box

After installation completed, run ChiTu software, click File-Open File, then open your own 3D model files (.stl type) or you can download some samples from our website www.elegoo.com. You can control and change the visual angle, size and position of the model by left-clicking the model and use options on the left menu.

5. Parameters (See picture 11)

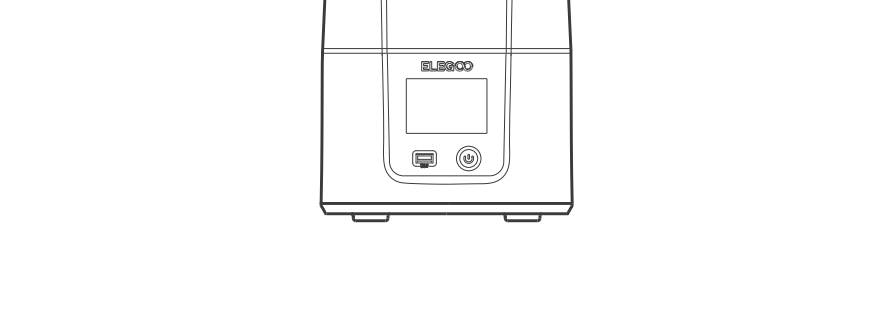
We offer a full one-year warranty on the printer and 6-month warranty for the screen. If your printer doesn't work please contact us at 3dp@elegoo.com and as to better help and solve problems for you please add your order ID in your email.

6. 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 platform may cause damage to the 4K screen when you're printing next time. As to the left resin on the platform and tank, you can clean and wipe them up using tissues.

7. Maintenance

1. If Z axis keeps making friction noises, please adds some lubricant to it.
2. Please do not use sharp or pointy objects to scrape the release liner film in case of damages.



3. Be careful when you remove the build platform in case you may damage the 4K LCD screen.
4. Remember to pour the rest of the resin from the tank back into the resin bottle and seal it well if you don't use the printer in the next 48 hours. And if there are any residues please use a filter to filter them out.



5. Please clean up the build platform by using tissues or ethyl alcohol once you complete printing.
6. Please clean up the resin tank before changing another colors of resin.

Warranty Service

1. ELEGOO provides a 1-year warranty for equipment damaged by non-human factors, except for filament, LCD screen, and FEP release film.
2. The LCD screen comes with a 6-month non-artificial damage warranty.
3. No warranty is provided for personal modification or disassembly of equipment.

4. Save Model

After setting up all the parameters, click "slice" and once it's done, click "export sliced files to U Disk or SD Card" then plug the U disk to your printer, start printing. (See picture 12)

5. FAQ

1. Model doesn't stick to the build platform

Bottom layer exposure time is too short, please set the exposure time longer. Model bottom has very small contact with the build platform and please add more bottom layers. Leveling is not well set and it will cause first layer too thick or one side is very thick and the other side is very thin.

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 platform or resin tank is not fastened.

3. Mars 3 can't work

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