

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.

Thank you for purchasing ELEGOO Mars 3 3D printer.

Please read the instruction carefully before you use the printer. Software and multiple language instructions are available

to download from www.elegoo.com/download.

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Notice:

(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.

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

• 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 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

• 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

Build Platform

Mask

Resin Tank

Gloves

Scrapper

ELEGOO **Backup Screws User Manual Funnel** MARS 3 3D Printer **Printer Components**

Mars 3 Tech Specs System: EL3D-3.0.1 **Operation: 3.5 Inch Touch Screen Printing Parameter** Slicer Software: CHITUBOX **Connectivity: USB Technology: UV Photocuring** Light Source: UV Integrated LED (warelength 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)

Build Platform

Anti-UV Cover

4 Resin Tank

8 DC Input

1 The Rotary Knob

5 Touchscreen

2 Z Axis

6 Power Switch

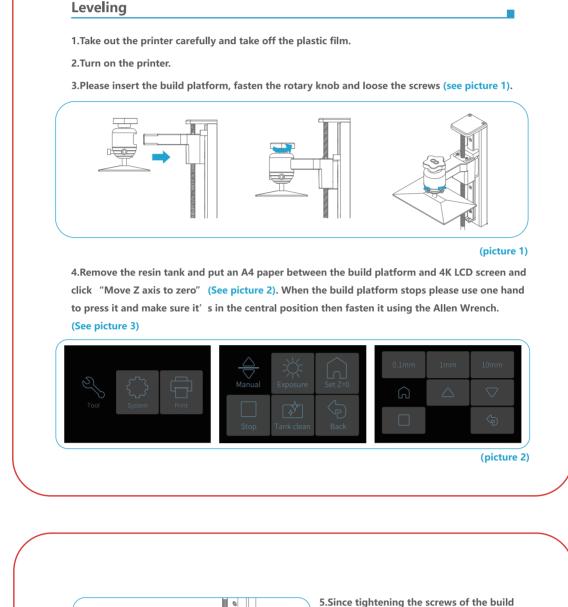


plate it will be tighter when pulling out the A4 paper, at that time, you need to calibrate the height of the Z axis slightly again. If there is no resistance or only a few resistance when pulling out the A4 paper, click to descend the Z axis at the distance

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.

No resistance or

a few resistance

the A4 paper.

when pulling out

(Picture 4)

of 0.1mm.

(See picture 4)

Unable to pull out the A4 paper.

(Picture 3)

0.1mm

6.After the above leveling is completed, set the current Z axis position as the

initial height if the first layer of

The operation is as follow: Return

to the previous interface and click

picture. Then click "Confirm"

to complete.(See picture 5)

Print Test

1 Install ChiTu Box

2 How To Use ChiTu Box

ELEGOO ChiTu Box

Other operations:

3 ChiTu Box Setting

3.2 Build Volume

3.3 Resin Parameter (See picture 11)

3.4 Parameters (See picture 11)

Layer Count: Set as 3-6 layers.

stick to the build platform.

of the build plate to 3-5mm.

the build plate to 110mm/min.

the build plate to 280mm/min.

4 Save Model

other side is very thin.

2. Model layer breakage

3. Mars 3 can' t work

4. Printing failure

5 Maintenance

Warranty Service

filament, LCD screen, and FEP release film.

wipe them up using tissues.

Printer is shaking during printing.

Build platform or resin tank is not fastened.

distance of the build plate to 3-5mm.

speed of the build plate to 80mm/min.

Resin Density: 1.1g/ml

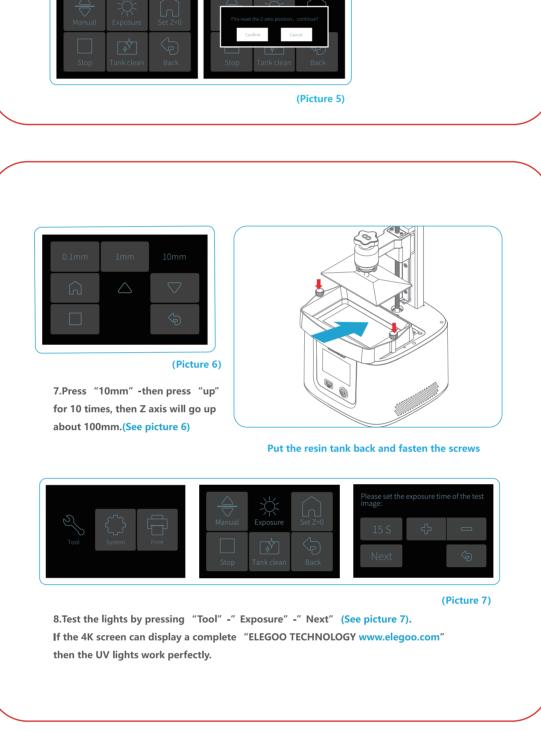
your model.

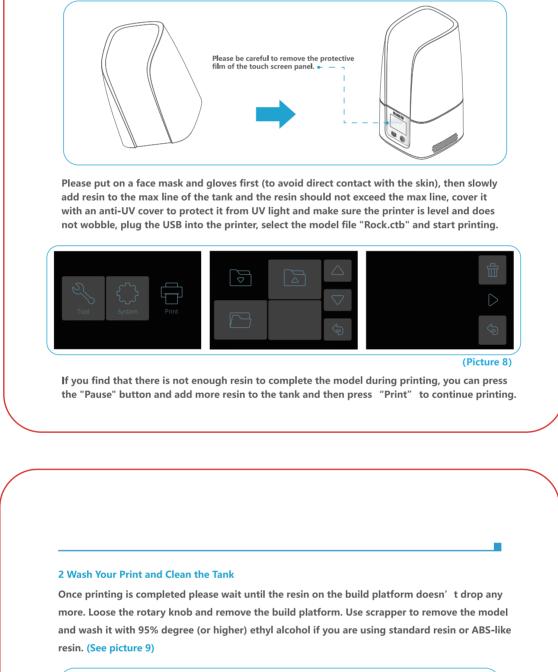
model and use options on the left menu.

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

"Set Z=0" . At this time, the screen

will pop up a message as shown in the





ELEGOO ChiTu Box is saved in the U Disk. Choose the right version and install it on your

 $computer\ or\ you\ can\ download\ the\ latest\ version\ from\ www.elegoo.com/download\ if\ you\ prefer.$

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

(Picture 9)

(Picture 10)



The below are the default parameters and you don't need to change them. If the model is bigger than printer build volume you would need to change its size with ratio locked.(See picture 10)

Resin Cost: You can input the cost of resin and after slicing you will see how much it costs for

Layer Height: The recommended height is 0.05mm but you can set it from 0.01-0.2mm.

Exposure Time: Can be set as 1.5-3s depending on the height of the layer and the complexity of the model, the thicker the setting is, the more the bottom will stick to the build platform. Bottom Exposure Time: Can be set as 20-40s, the longer the setting is, the more the bottom will

Waiting Mode Of Printing Process: Default parameter is static and does not need to be changed. The quiescent time after retract: Default parameter is 0 and does not need to be changed. Bottom Lift Distance: When printing the bottom layers, it is recommended to set the lifting

Lifting Distance: When printing the normal layers, it is recommended to set the lifting distance

Bottom Lift Speed: When printing the bottom layers, it is recommended to set the lifting

Lifting Speed: When printing the normal layers, it is recommended to set the lifting speed of

Retract Speed: When printing the bottom layers, it is recommended to set the retract speed of

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)

The higher you set, the longer time it will take for exposure of each layer.

Transition Layer: Default parameter and does not need to be changed.

Transition Type: The default parameter is linear and does not need to be changed.

(Picture 10)

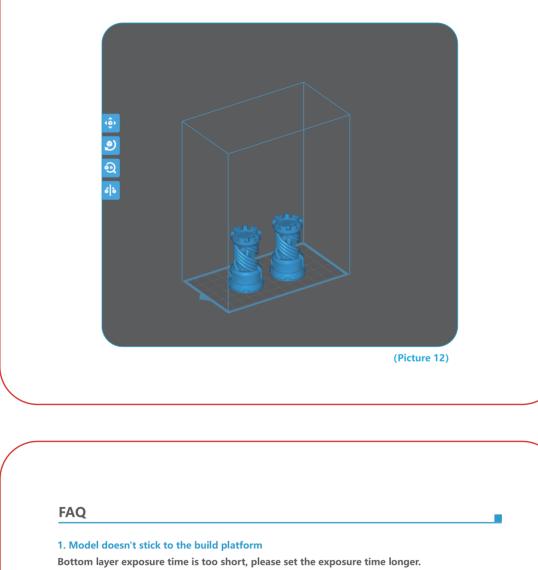
1)Long press the left click and drag the model to the position you want.

3)Long press the right click to see different perspectives of the model.

2)Scroll the mouse wheel to zoom in or zoom out the model.

3.1 Click "Parameter Settings" and choose

ELEGOO Mars 3 as your default printer.(See picture 10)



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

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

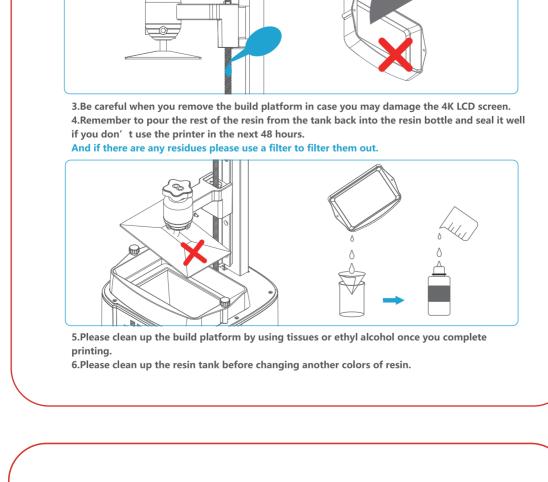
We offer a full one-year warranty on the printer and 6-month warranty for the screen. If your printer doesn't work please contact us at 3dp@elegoo.com and as to better help and

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

1.If Z axis keeps making friction noises, please adds some lubricant to it.

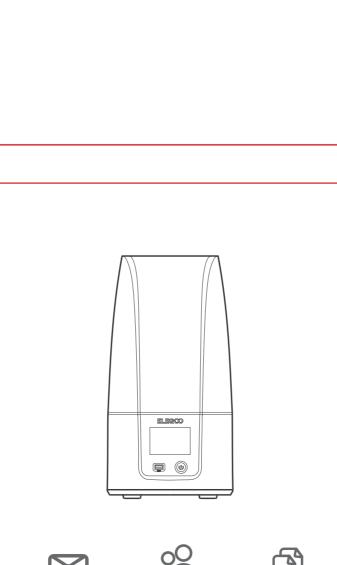
2.Please do not use sharp or pointy objects to scrape the release liner film in case of damages.

solve problems for you please add your order ID in your email.



1. ELEGOO provides a 1-year warranty for equipment damaged by non-human factors, except for

 ${\bf 2.\ The\ LCD\ screen\ comes\ with\ a\ 6-month\ non-artificial\ damage\ warranty.}$ 3. No warranty is provided for personal modification or disassembly of equipment.



Discussion Forums

Email Support