

USER'S MANUAL UltraBot

LIGHT CURING  PRINTING

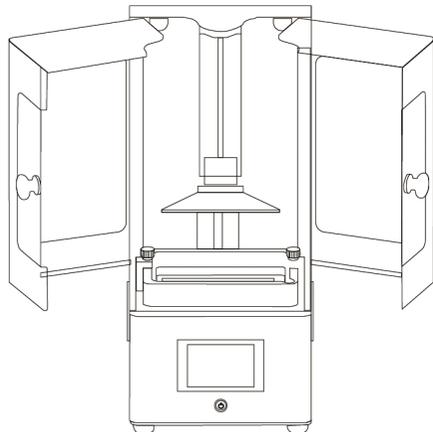
FULL METAL FRAME

2K SCREEN

DETACHABLE DESIGN

3.5 TOUCH SCREEN

NEW
WORLD



Thank you for choosing TRONXY products !



Please read this manual carefully before using this product.

You can log in to TYONXY official website to choose other products. www.tronxy.com

If you have any questions, please send an email to the after-sales mailbox : support@tronxy.com



Relevant information is stored in the Thumb Drive, please check



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1. Matter needs attention



After receiving the printer, please check if the accessories are there, if there is any missing, please contact the customer service.



Please use the printer in a shaded, ventilated, flat, clean and safe environment. The resin will cure when exposed to light, and direct sunlight should be avoided.



Please keep the printer out of the reach of children.



The internal structure of the UltraBot 3D printer contains moving parts. Avoid directly touching the moving parts with your hands during the printing process to avoid injury.



Watch to the printer for moisture and dust.



When removing the model from the platform, do not point the tool to your hand to prevent injury.



When cleaning the resin and the model, please wear gloves to avoid direct contact with the resin on the skin (people with resin allergy should not use this machine).



There are many delicate parts to every printer, and the warranty varies depending on the individual part.

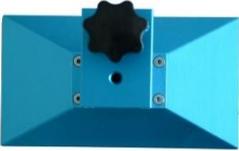
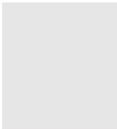


In case of emergency, turn off the power and unplug the printer.



Please operate the printer in strict accordance with the manual. Do not disassemble and assemble the machine without permission.

2. Packing list

		Print platform		Resin tank	
					
		Doorknob	Resin (250g)	Adaptor	
					
Manual	Thumb Drive	FEP film	Gloves	Power cord	
					
Scraper knife	Cleaning tool	Funnel	Tool kit	Spare screws	
					

Notes : Please insure you received all items on the packing list after receiving the printer. If you have any questions, please contact the customer service

3. Machine parameter

Print parameter :

Operate system :	UltraBot
Display :	3.5inch touch screen
Print size :	UltraBot+ : 130*73*180mm UltraBot : 118*66*180mm
Print thickness :	0.01-0.1mm
Print theory :	UV curing molding technology
Print speed :	20mm/s
Resolution :	UltraBot+ : 1080P UltraBot : 2K
Z axis accuracy :	0.000625mm
Print materials :	Photosensitive resin (405nm)

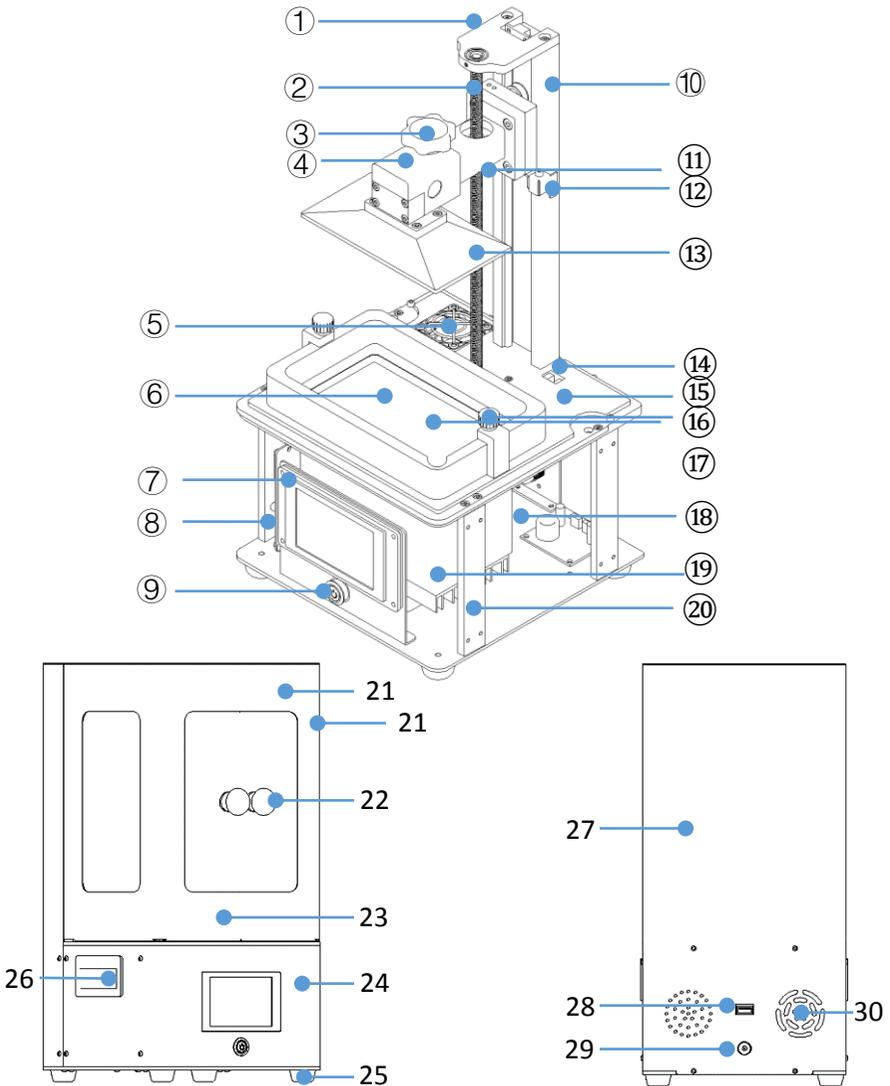
Software parameter :

Slice software :	UltraBot
Input format :	stl、obj
Output format :	cbddlp
Connection :	Thumb drive

Machine parameter :

Machine size :	200*200*410mm
Packing size :	280*280*545mm
Machine weight :	≈7.25kg
Packing weight :	≈9.2kg

4. Machine details



1. Lead screw fixed plate 2. Lead screw 3. Carriage lock handle
 4. Leveling module 5. Fan 6. Print area 7. Display 8. Mainboard
 9. Power switch 10. Slide 11. Platform support 12. Leveling jackscrew
 13. Print platform 14. Photoelectric switch 15. Top plate
 16. Thumb screw 17. Magazine 18. Mainboard Bottom plate
 19. UV lampshade 20. Support pillar 21. Right door 22. Doorknob
 23. Left door 24. Bottom case 25. Footpad 26. Handle
 27. Back panel 28. USB socket 29. DC socket 30. Air vent

5. Screen UI



System
menu



Tool
menu



File
menu



Move Z axis

0.1mm

Each move 0.1mm



Check lamp
and screen

1mm

Each move 1mm



Reset the zero point
(Print start)

10mm

Each move 10mm



Emergency stop

3

S

Testing time



Returns the last
menu

Next

Starting test



Return home



Time plus 1S



Up move



Machine details



Down move



Network
information



Stop Z movement



Language switch

6. Installation and leveling instructions

(Tip: do not resin vat on the top plate before debugging,
Clear the print area⑥, see figure (3) below)

Install : Install the handle on the left and right door with M4*8 screws and washers, shown in figure (1)

Testing : Power on, Switch on :

① **Test the motor and photoelectric switch** ⑭, click  →

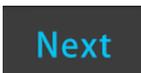


10mm →

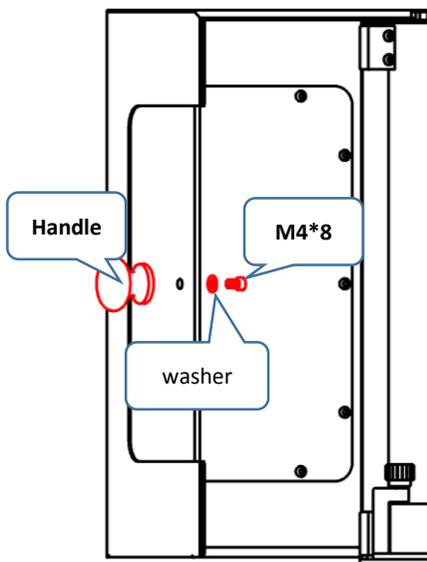


The photoelectric switch glows red, then click  (return home, The test is normal when the

z-axis drops and stops running, If the z-axis doesn't stop moving, click  (Please contact customer service) .

② **Test 2 k screen**, click  →  → 

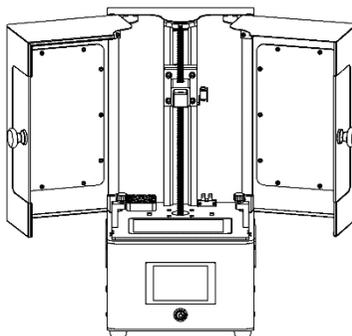
The printing area ⑥ will display a rectangle bright box as shown in figure (2) is correct (If the display show different, please contact customer service)



pic (1)



pic (2)



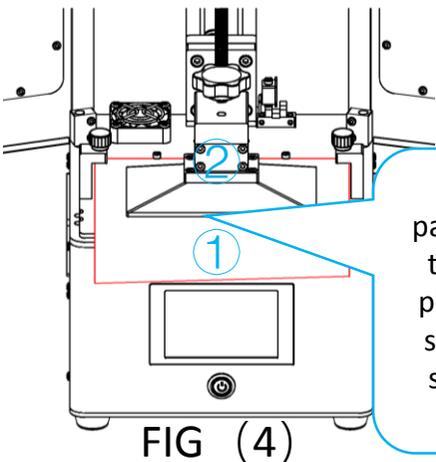
pic (3)

Leveling : Standard sheet of A4 paper, allen wrench (3mm), resin vat and printing platform not installed. The print platform (13) is locked place when shipped, need to loosen the level jackscrew (4), to allow the platform move.

① Clear the print area first, then click  →  →  return home

② Place the A4 paper on the printing area, and then install the printing platform, as shown in FIG. (4). Tighten the carriage lock handle and pull A4 paper, If the paper can be easily pulled, the platform is high, according to the steps (3) operation ; If it can not be pulled, then the platform is low, adjust according to the step (3) operation ; If the tightness is appropriate, adjust the platform to be parallel to the edge line, as shown in figure (5). Tighten the top jackscrew to print.

③ The platform is high, click **0.1mm** (Do not select other gear values to prevent damage to the 2K screen) , then click (one time click)  , Pull A4 paper, repeat this step as many times until there is slight resistance when the paper is pulled, adjust the platform to be parallel to the edge line, and tighten the jackscrew. Back to click  reset zero, click to select, as FIG (6) , till finished leveling. (At this point, the mechanical zero is not the same position as the reset zero, and the reset zero is the starting position of printing)



First put paper(1), and then install platform (2), so as not to scratch the steel film

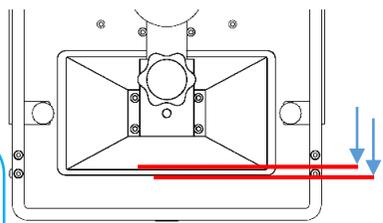


FIG (5)



FIG (6)

- ④ If the platform position is too low to be install, or the platform position is too high (**distance > 3mm**), Then the leveling module needs to be adjusted to make the platform zero position closer to the printing area (**≈1mm**), First remove the platform, adjust the leveling jackscrew as shown in the picture (6), Clockwise raises up, counterclockwise to lower. Test every 10 ° rotation, by returning to zero, After zeroing, install the platform and observe whether the height is appropriate. Repeat this step for several times until the platform position is about 1mm higher than the printing area (**The platform must be removed before repeated operation**), Then according to the①②③step leveling.

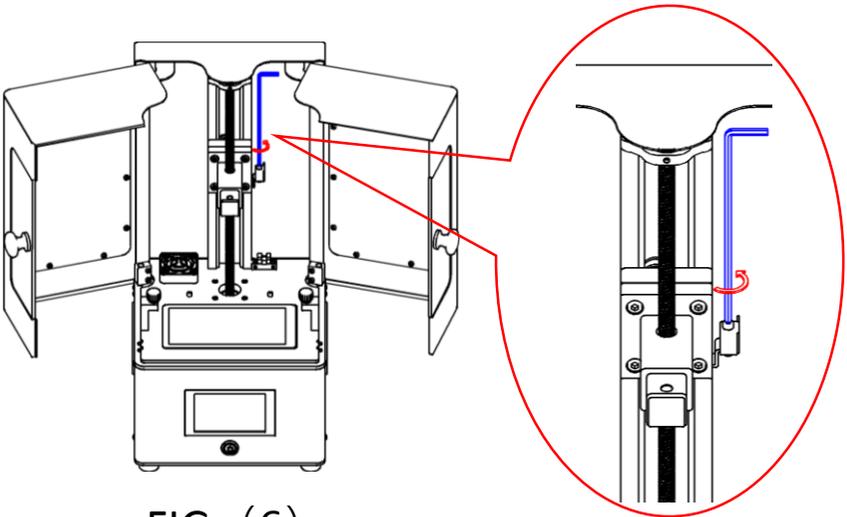
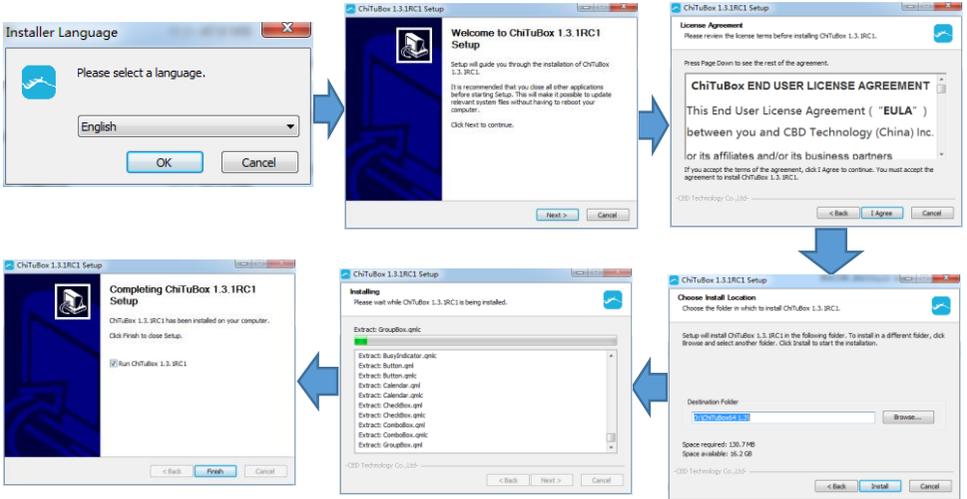


FIG (6)

- ⑤ After leveling, raise the platform to the middle height, push the resin vat into the printing area flat, tighten two thumb screws (the screws are placed in the groove of the resin vat), and pour the resin to the height of about 1/3 to 1/2 of the resin vat (**to prevent overflow, it is easy to exceed 1/2 height**).
- ⑥ Try printing: click  and select "test file", then click  Start printing.

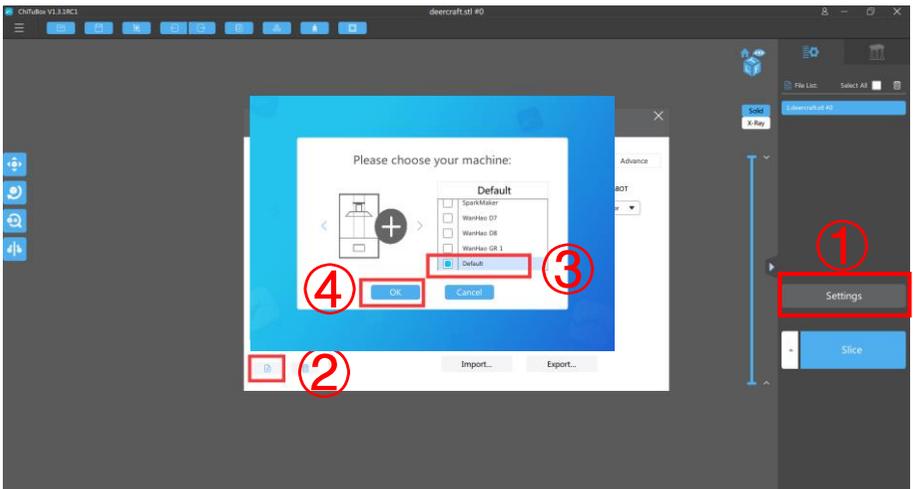
7. Software installation and printing

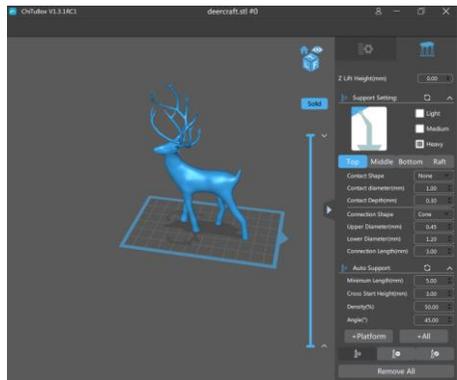
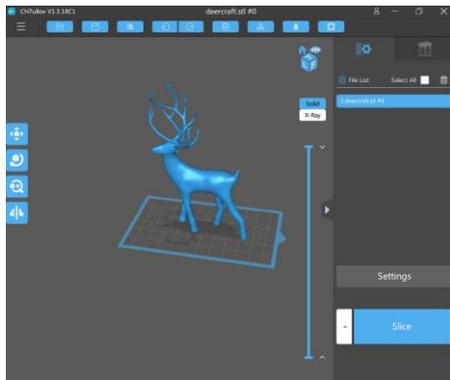
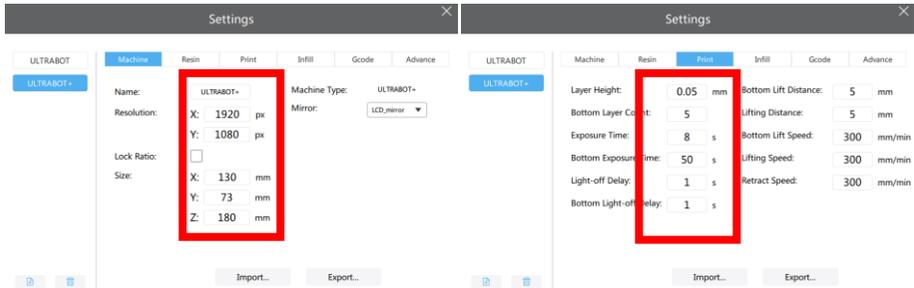
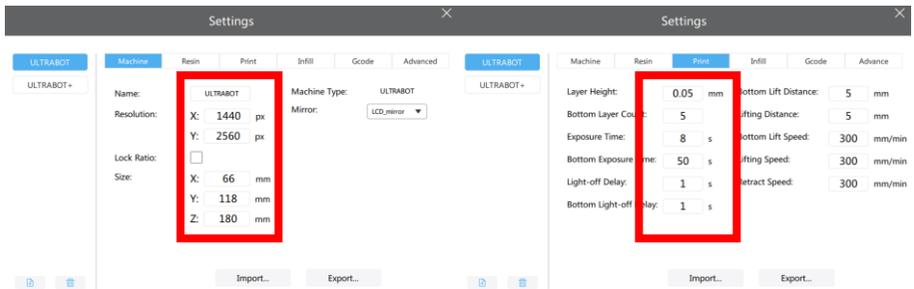
- ① Double click “ChiTuBox64Install_1.2.0.exe “ (Thumb Drive), 32bit system please choose ChiTuBox32Install_1.2.0.exe , (<https://www.chitubox.com/download.html>)



- ② parameter setting

Open software, click software setting ① → select model ②, And then the corresponding model UltraBot or UltraBot+, Select the model you bought and click ok.





8. Cleaning, maintenance and failure analysis

Model cleaning : Gloves ready first (must wear gloves when cleaning model), alcohol (95%), clean boxes, soft brush, the cleaning tool and clean cloth, with a scraper knife remove the model, clear supports from the platform into the clean box, pour alcohol over the model, just flood the model, brush the surface of the model, wipe cleaning cloth on the model surface after alcohol place in the sun (or incandescent lamp), you can reinforce the model surface resin

Maintain :

- ① After each printing, scrape the resin in the material box with a clean tool to see if there is any residue at the bottom of the material box. If there is, filter the resin through a funnel before use
- ② If there is cured resin on the printing platform, it must be cleaned with alcohol before use
- ③ Take the platform and install carefully to prevent the platform from hitting the steel film, steel film and screen are fragile
- ④ The resin will cure when exposed to UV light, so avoid direct sunlight and prolonged exposure by sunlight lamps
- ⑤ When you do not use the printer for a long time, you need to clean the printer (mainly resin vat and printing platforms).

Troubleshooting :

1. **The model won't stick :**

- ① Bottom exposure time is too short, lengthen the bottom exposure time and the number of layers
- ② If the top jackscrew of the platform is loose or not adjusted and leveled, re-adjust and tighten it
- ③ When slicing, the bottom of the model was not placed on the platform, and the model was suspended, need to slice again

2. **Model printing is incomplete and missing:**

- ① The model itself has a dangling part, and the lack of support leads to incomplete printing
- ② Adding too little support or too thin support results in adding support or selecting a thicker type of support
- ③ Model testing needs to be replaced because of problems with the model itself
- ④ Due to too few contact surfaces between the model bottom and the platform, the bottom raft needs to be added

A REAL AWESOME PRINTER

Full metal frame

2K screen

Full body frame

3.5 touch screen

Quick slice

Offline printing

Innovative tank

Spotlight upgrade

efficient and durable

