

CREALITY LD-002R 3D Printer User Manual

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CREALITY

CREALITY LD-002R 3D Printer



Dear customer,

Thank you for purchasing our product. Please read the following instructions carefully before first use and keep this user manual for future reference. Pay particular attention to the safety instructions. If you have any questions or comments about the device, please contact the customer line.

www.alza.co.uk/kontakt

+44 (0)203 514 4411

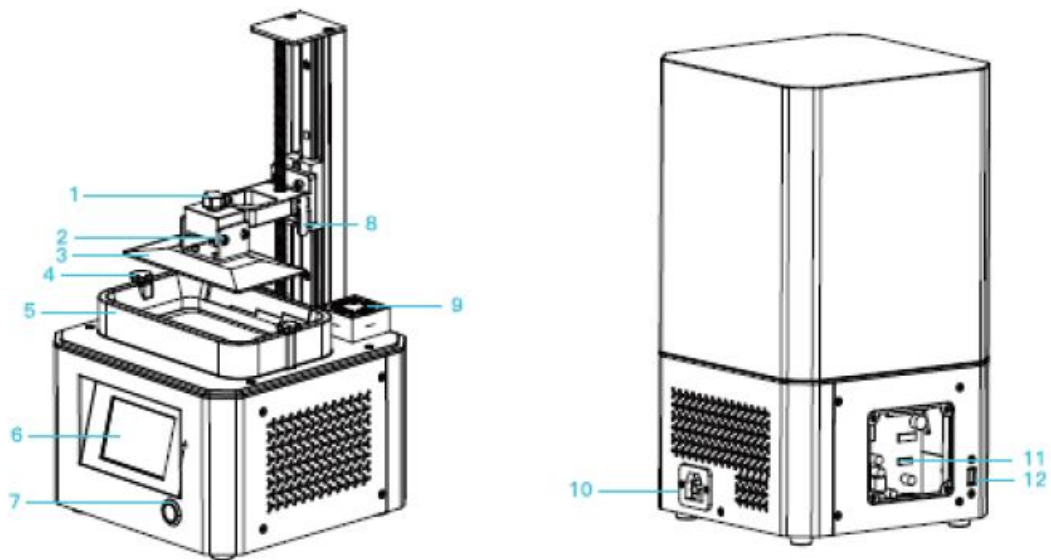
Alza.cz a.s., Jankovcova 1522/53, Holešovice, 170 00 Praha 7, www.alza.cz

Notes

1. Do not use the printer any way other than described herein to avoid personal injury or property damage.
2. Do not place the printer near any heat source or flammable or explosive objects. We suggest placing in a well-ventilated, low-dust environment.
3. Do not expose the printer to violent vibration or any unstable environment, as this may cause poor print quality.
4. Please use recommended resin to in case damage of machine.
5. Do not use any other power cable except the once supplied. Always use a grounded three-prong power outlet.
6. Please do not open the plastic cover during usage, otherwise the printing will be interrupted.
7. Do not wear cotton gloves when operating the printer. Such cloths may become tangled in the printers moving parts leading to burns, possible bodily injury, or printer damage.
8. Please wait a moment after the print is finished. And please wear gloves to take out the print by tools.
9. Clear the printer frequently. Always turn the power off when cleaning and wipe with a dry cloth to remove dust, adhered printing plastics or any other material of the frame, guide rails or wheels. Use glass cleaner or isopropyl to clean the print surface.

10. Children under 10 years should not use the printer without supervision.

Equipment Introduction

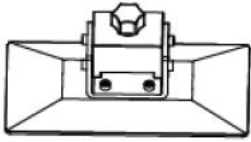


1. Hexalobular socket screw
2. Leveling screw
3. Platform plate
4. Hexalobular socket screw
5. Resin vat
6. Touch screen
7. Metal power switch
8. Limit sensor
9. Air filter
10. Power socket
11. 5.5-inch screen port
12. USB port

Equipment parameters

Model	LD-002R
Software language	English
Print method	U disk
X/Y-axis resolution	1440*2560
Z-axis precision	0,03-0,05mm (layer thickness)
Print speed	6-18s (layer height)
Special filaments	Common rigid photosensitive resin, Standard resin, High elasticity, High hardness, High toughness, Dental model resin.
Light source configuration	UV integrated lamp bead (wavelength 405nm)
Operation system	Windows XP and above systems
Nominal power	72W
Print size	119*65*160mm (length, width, and height)
Machine size	221*221*403mm
Package size	295*295*545mm
Machine weight	7kg
Gross weight	8,7kg
Display screen	3.5inch

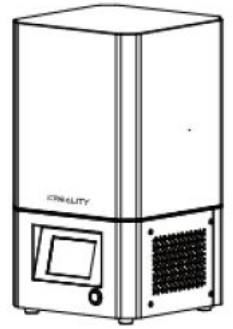
Package Content



1) Print platform



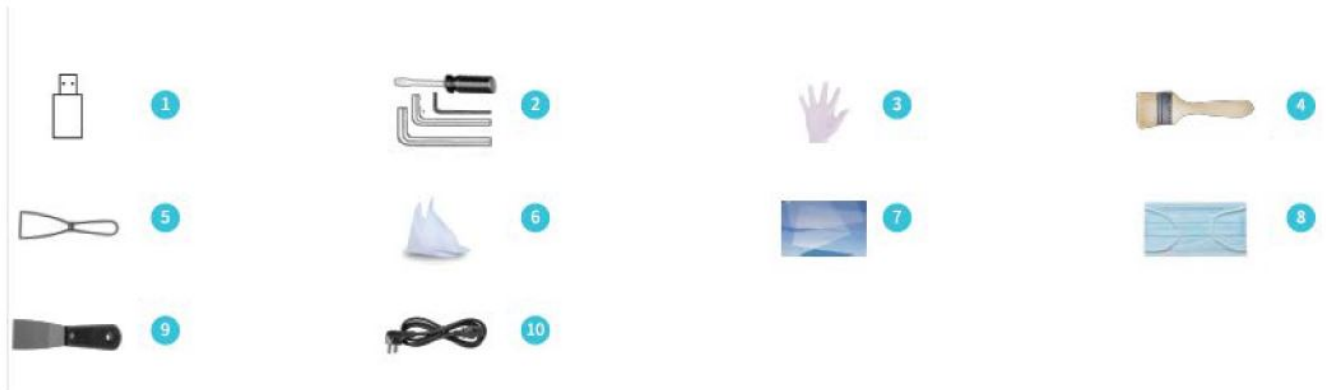
2) Resin vat



3) 3D printer

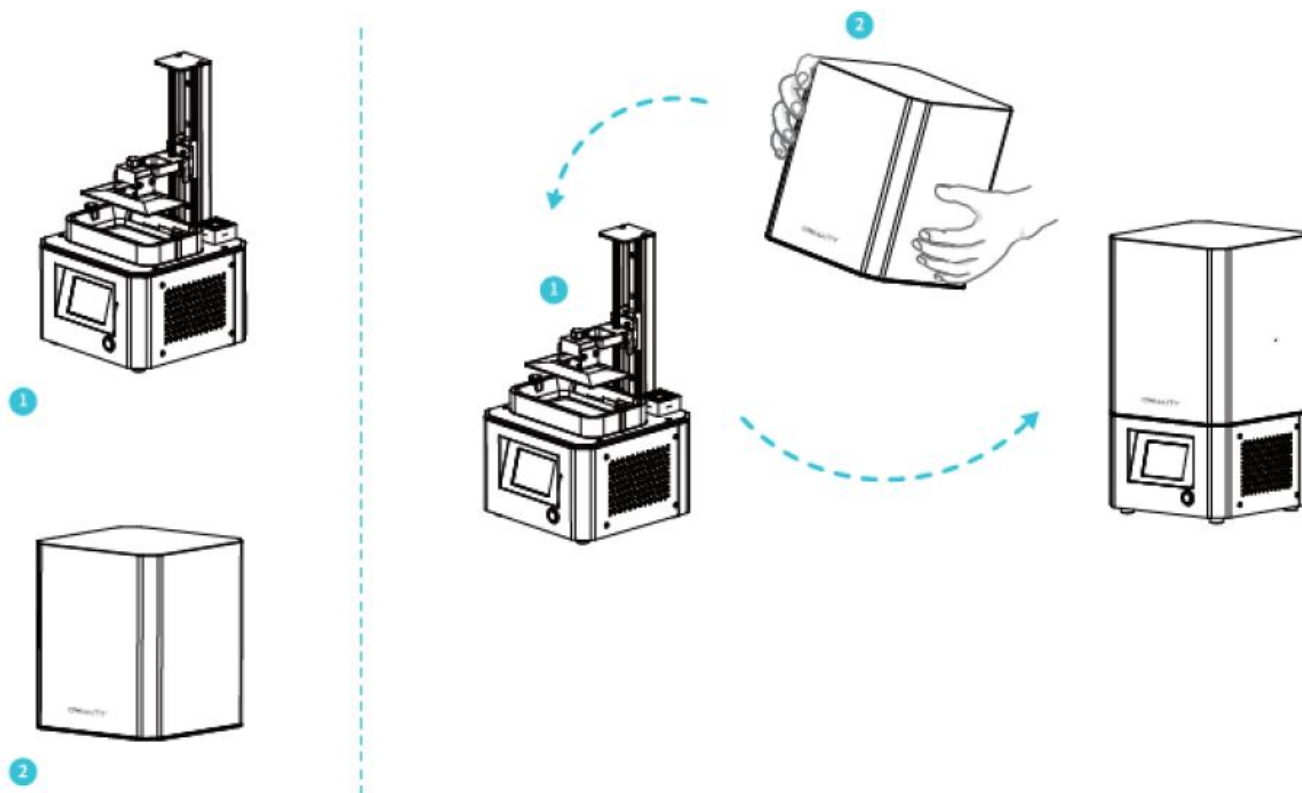
1. Print platform
2. Resin vat
3. 3D printer

Tool list



1. U disk x1
2. 2#, 2.5#, 3# x1
3. Gloves x2
4. Brush x1
5. Plastic blade x1
6. Paper funnel x4
7. Release film x1
8. Mask x2
9. Metal blade x1
10. Power adapter x1

Assemble the 3D Printer



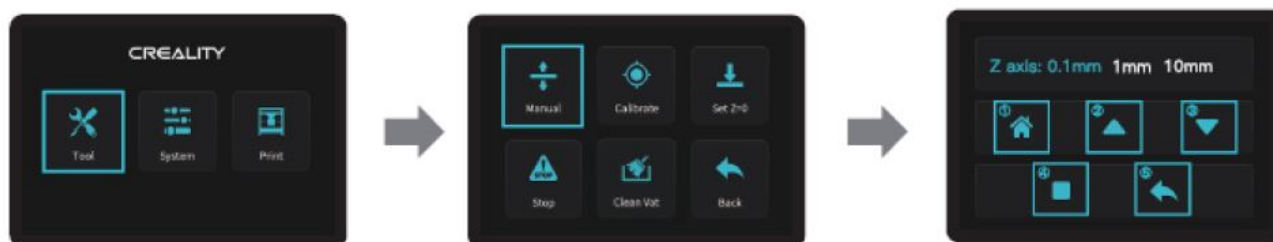
1. Machine Body
2. Plastic Cover

NOTE: Put the plastic cover on the machine body and the installation is completed.

Interface Information

Tools

Tools



1. Home
2. Up
3. Down
4. Stop
5. Back

NOTE: The UI information is only for reference, the actual UI may be different.

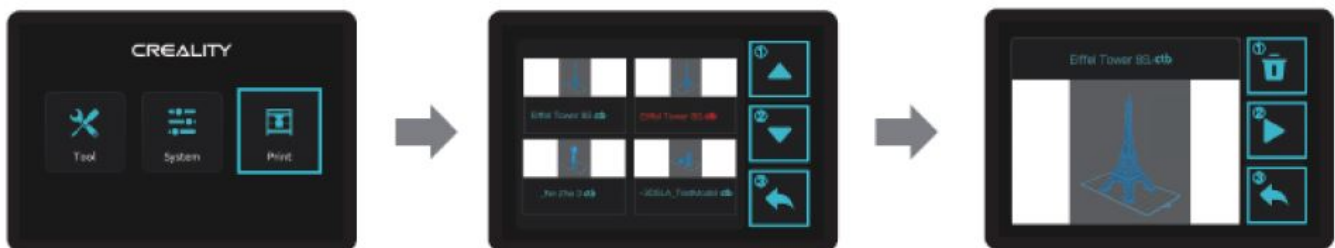
System



NOTE: The UI information is only for reference, the actual UI may be different.

Print

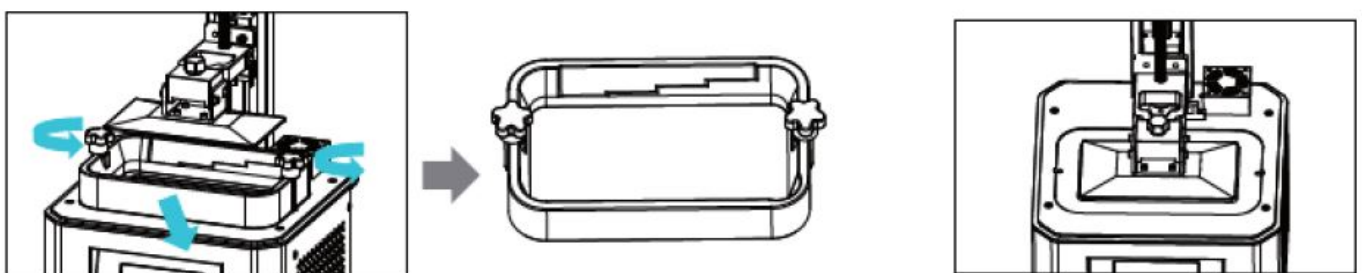
1. Turn up
2. Turn down
3. Back



1. Delete
2. Print / Stop
3. Back

NOTE: The UI information is only for reference, the actual UI may be different.

Level Platform 1



1. First raise the platform, then loosen rubber screws on the left and right sides of the resin vat and take out the resin vat.
2. Tool > Manual > Home, and check whether the platform sticks into the printing screen.

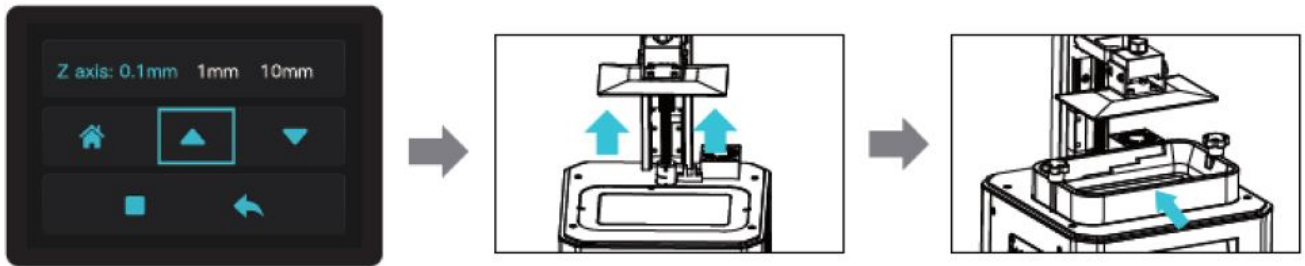
NOTE: The printing platform has been leveled at the factory. IF it needs leveling due to transportation or other reasons, please follow the steps below to adjust the printing platform.

Level Platform 2

In the platform does not stick to the print screen, do as the following:



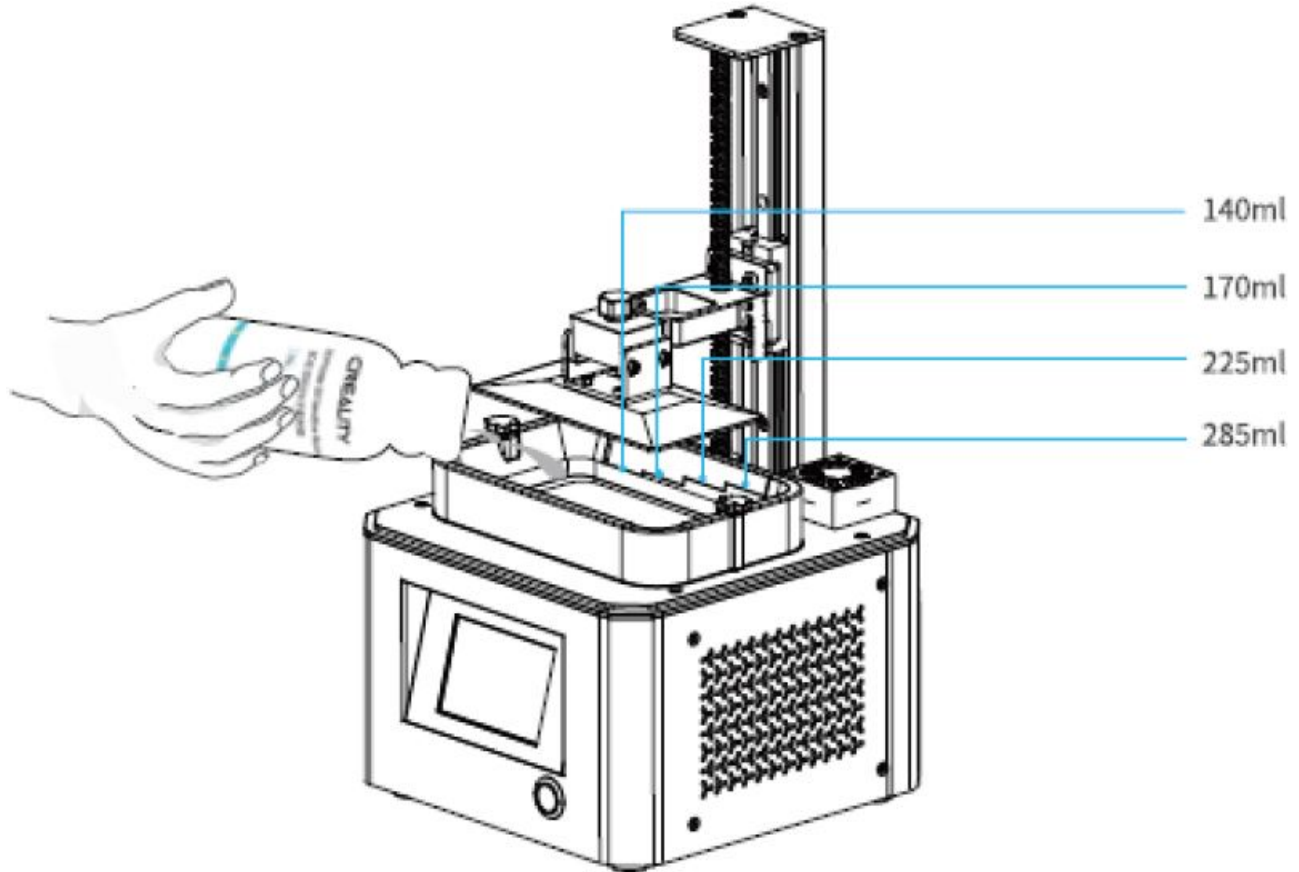
1. After unscrewing the screw, press “Home” to keep the platform and the print screen parallel.
2. Gently press the platform and tighten 4 screws clockwise, and the platform can be leveled successfully.



3. Level up the z-axis a proper position, put the resin vat in, align the screw holes at both ends of the resin vat, and then tighten the fixing screws at both ends of the resin vat.

Load Resin

Pour the UV photosensitive resin into the resin vat. The slot capacity is 140ml / 170ml / 225ml / 285 ml.



TIPS:

How to change resin:

Takt out the resin vat slowly, pour out the remaining resin into the container, clean the resin vat, pour in new resin,

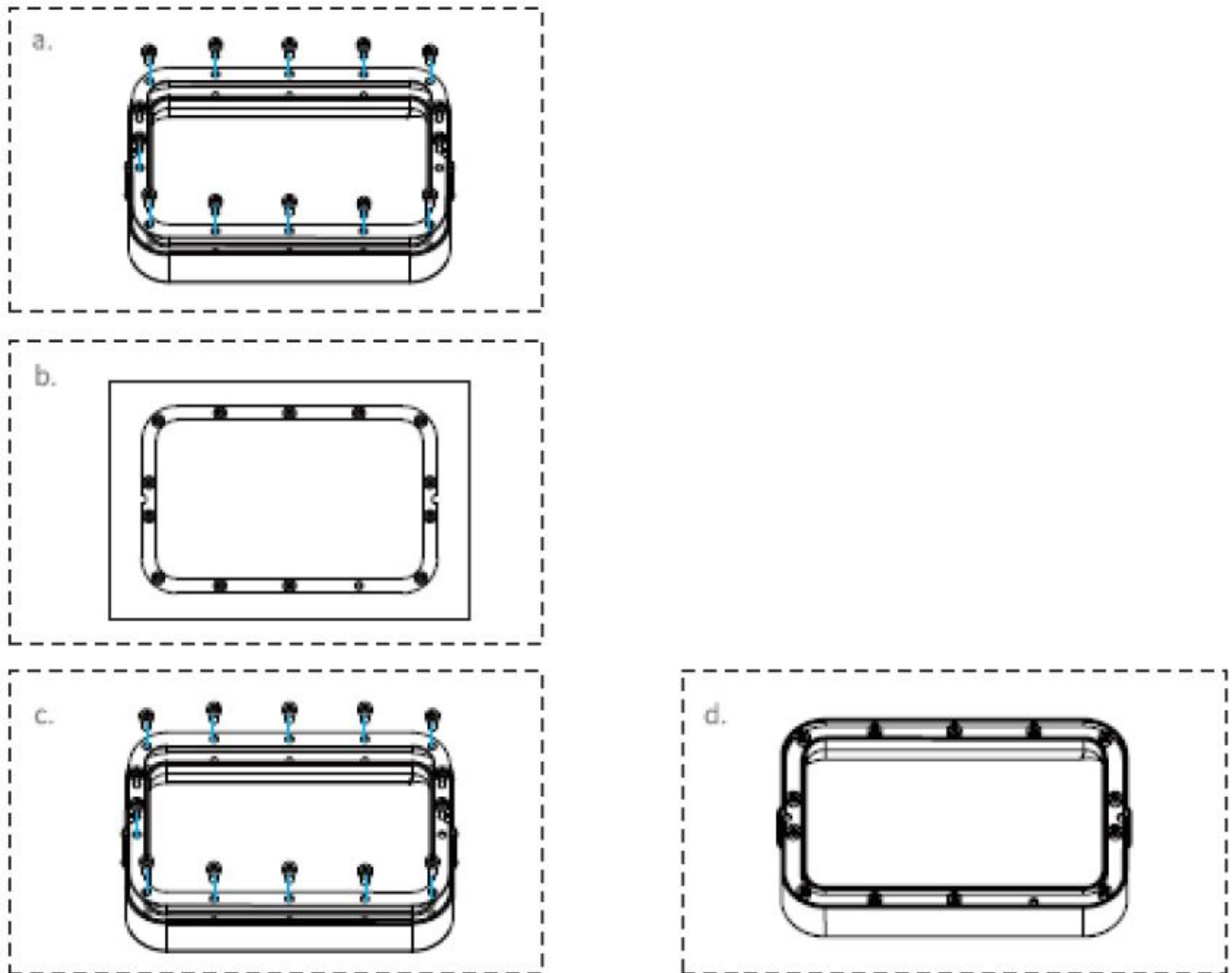
and then install the resin vat to the machine.

CAUTION:

Resin may cause skin irritation or an allergic skin reaction. Please wear gloves before use to avoid direct contact with the skin.

Release Film Instructions

Installation steps



- a) First, remove the 14 screws at the bottom of the tray and take out broken release film.
- b) Then place the release film between the two steel frames.
- c) Finally, put the assembled steel frame back into the tray and tighten 14 screws.
- d) The installed release film is as shown.

Parameters

Size	140mm*200mm
Thickness	0.15-0.2mm
Light Transmittance	95%

Start Printing

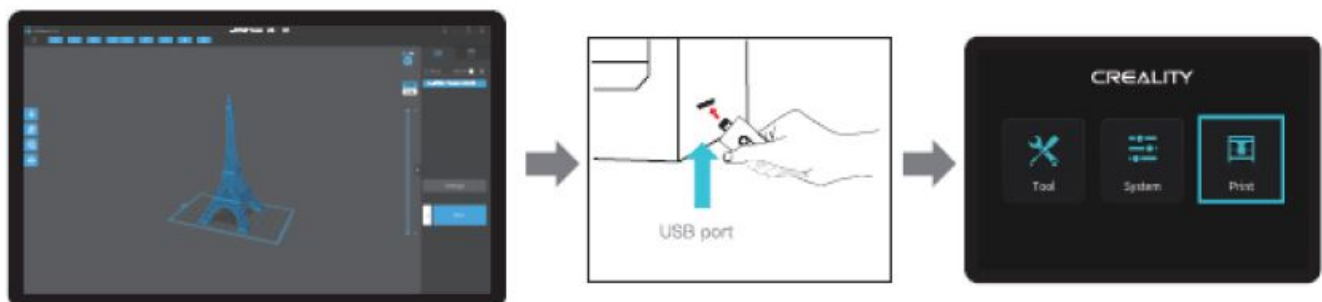


1) Slice



1. Open the slice software of LCD 3D Printer, click “open” on the left of the screen, and add model file.
2. If the model needs to add support, click the upper right icon to set corresponding parameters.
3. Click icon -> click “Settings” -> setting slice parameters (recommend setting parameters of bottom layer as 10-20).
4. Click “Slice” -> waiting for slice to be finished -> save the sliced file (You are welcome to find more details of slicing tutorial on the official website www.creality.com).

2) Print



1. Generate G-code and save the g-code file to U disk.
2. Insert the U disk -> press the print button.



3. Press “up” or “down” to select files.
4. Select the file to be printed and press “print”.
5. Printing.

Clean the Resin Vat



If there is residue in resin vat before printing, please clean resin vat first. The cleaning time is generally set to 60 seconds and then shovel it off with a plastic blade.

Wiring Connection

Wiring Connection

Wi-Fi module

Touch screen part

RJ 485

Restart

5.5inch 2K
screen port

12V
power
supply

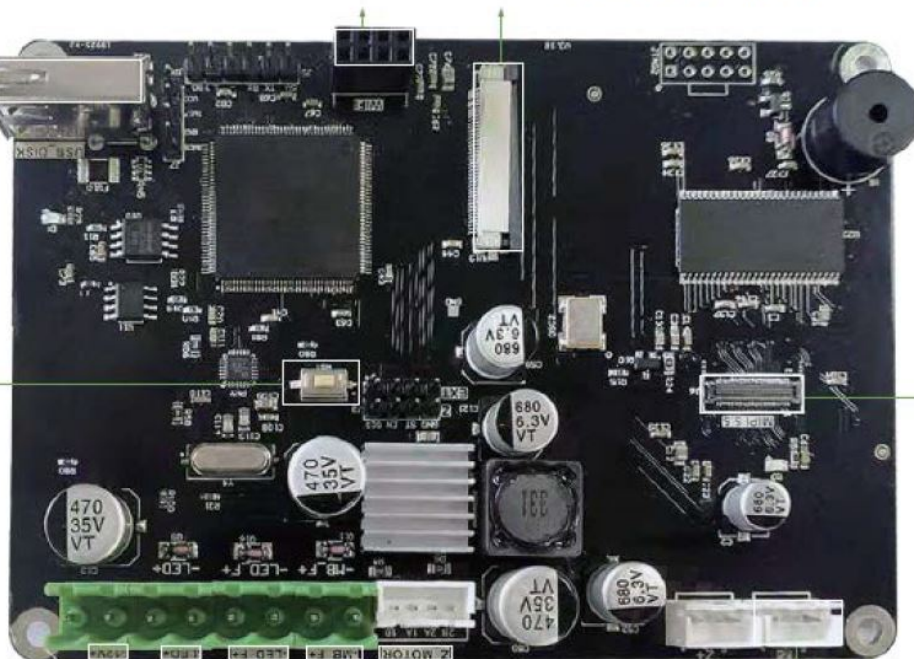
UV
lighting
source

Cooling
fan

Mainboard
fan

Z-axis
motor

Z-axis
limit



Troubleshooting

Start ->

Print from storage card -> Y/N

N -> File identified or not -> **N** -> U-disk ->

1. Wipe U disk.
2. Format U disk.
3. Replace U disk.

Y -> Other files can be printed normally -> Slice -> 1. Move model position and slice again.
2. Use the repair software to repair model.

Y -> Return home **N** -> Work or not -> **N** -> Axis motor -> 1. Reconnect circuit.
2. Check by substitution.

Y -> Exceed the home -> Limit switch -> 1. Reconnect circuit.
2. Check by substitution.

Y -> Stick to print screen -> **N** -> Leveling -> 1. Leveling Operation

Y -> The screen is on -> **N** -> Wi-Fi connection -> **N** -> 1. Reconnect circuit.

Y -> 1. Replace screen.

Y -> Z-axis motor -> Motor rotates -> **N** -> 1. Fasten coupler

Y -> 1. Reconnect circuit
2. Check by substitution.

Process result

1. Problem solved.
2. Component damage, replace continuously.
3. Unknown malfunction, please contact the after-sales.

Warranty Conditions


A new product purchased in the Alza.cz sales network is guaranteed for 2 years. If you need repair or other services during the warranty period, contact the product seller directly, you must provide the original proof of purchase with the date of purchase.

The following are considered to be a conflict with the warranty conditions, for which the claimed claim may not be recognized:

- Using the product for any purpose other than that for which the product is intended or failing to follow the instructions for maintenance, operation and service of the product.
- Damage to the product by a natural disaster, the intervention of an unauthorized person or mechanically through the fault of the buyer (e.g. during transport, cleaning by inappropriate means, etc.).
- Natural wear and aging of consumables or components during use (such as batteries, etc.).

- Exposure to adverse external influences, such as sunlight and other radiation or electromagnetic fields, fluid intrusion, object intrusion, mains overvoltage, electrostatic discharge voltage (including lightning), faulty supply or input voltage and inappropriate polarity of this voltage, chemical processes such as used power supplies, etc.
- If anyone has made modifications, modifications, alterations to the design or adaptation to change or extend the functions of the product compared to the purchased design or use of non-original components.

Documents / Resources

 <p>3D Printer LD-002R User Manual</p>	<p>CREALITY LD-002R 3D Printer [pdf] User Manual</p> <p>LD-002R, 3D Printer</p>
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