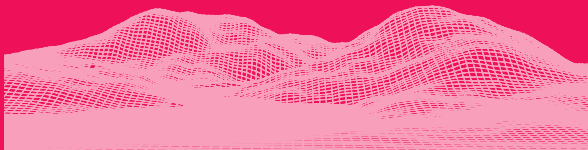


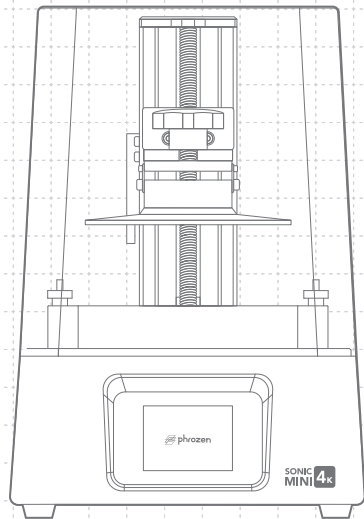


SONIC
MINI 4K



Dear User,

Thank you for joining us. Please read the Sonic Mini 4K manual thoroughly and follow the instructions step by step to get the best printing experience.



01 Introduction

Printer Parts

PART.1

Building Plate

PART.2

Resin Vat

PART.3

LCD Screen

PART.4

Touch Panel

PART.5

Plastic Case

PART.6

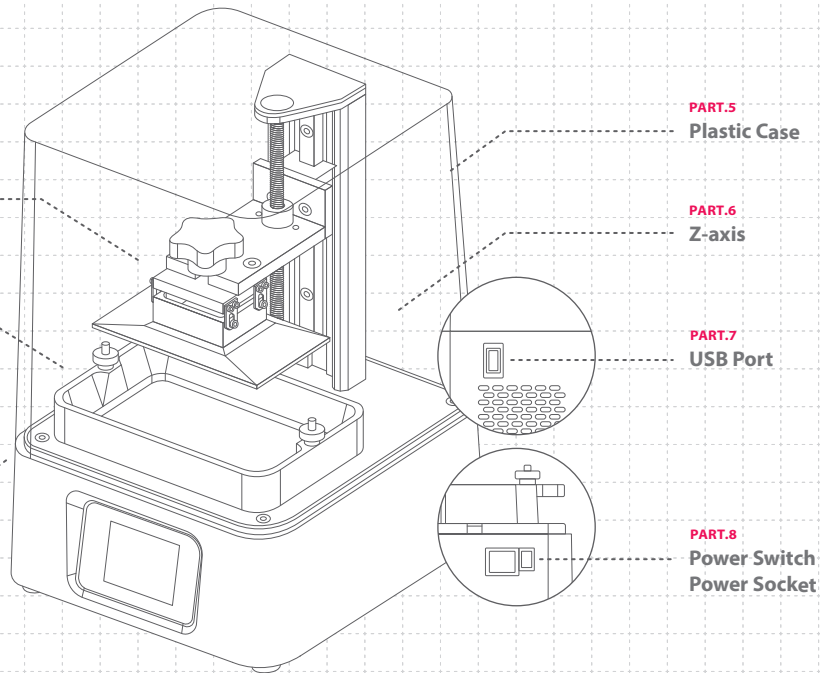
Z-axis

PART.7

USB Port

PART.8

Power Switch
Power Socket



The Toolbox



User Manual



Gloves



Power Adaptor



Plastic Funnel



Scrapers



Allen Wrench



USB



Spare Screws



Building Plate

Operation

System	Phrozen OS
Operation	2.8 inch Touch Panel
Slicer Software	CHITUBOX V1.6.5 or above
Connectivity	USB

Printing Specifications

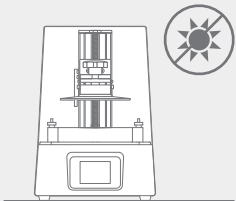
Technology	Resin 3D Printer - LCD Type
Light Source	405nm ParaLED® Matrix 2.0
XY Resolution	35 µm
Layer Thickness	0.01-0.30 mm
Max Printing Speed	80 mm / hr
Power Requirement	DC 24V ; 2A

Hardware Specifications

Printer Size	23 x 23 x 34 cm
Printing Volume	13.4 x 7.5 x 13 cm
Printer Weight	5 kg

* All specifications have been tested in a laboratory. Please note that certain specifications may be subject to change without prior notice.

02 Key Notes Before Start



Stable Printing Environment

Store your 3D printer in a dry and ventilated environment. Avoid exposure to direct sunlight. Make sure to place it on a flat surface.



Protective Measures

While printing and using resin, please make sure to wear gloves, masks, protective goggles, and long-sleeved clothing.

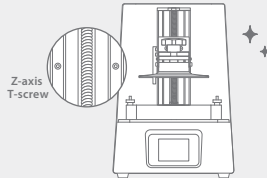
Maintenance

Clean the Z-axis

First, dry clean the Z-axis T-screw. Then apply a thin layer of general lubricant on it, so that it whirls smoothly.

Clean the 3D Printer

Use sanitizing alcohol and tissue paper to carefully clean the printer, the resin vat, and the building plate.



03 Prepare Your 3D Printer

For first-time use, please thoroughly follow the steps below to conduct the LCD Test and calibrate your Z-axis so that your 3D printer is ready to print.

LCD Test

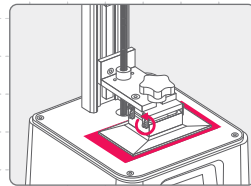
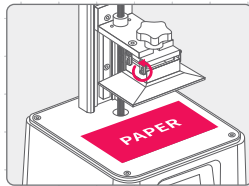
- 1 Click on TOOLS. Then click on LCD TEST.
- 2 Check to see if the LCD screen displays the same image as seen on the touch panel.
- 3 When the LCD screen clearly displays the image, the LCD TEST is complete.



* Please refer to the actual operation situation based on the printer display.

Z-axis Calibration

- 1 Click on TOOLS. Then click on Z CALIB.
- 2 Remove the resin vat. Place a piece of A4 paper on the LCD. Unscrew 4 screws on the sides of the building plate.
- 3 Wait until the building plate touches the LCD screen.
- 4 Then tighten all 4 screws. Tug the paper to make sure it can't be moved easily. Click DONE to finish calibration. Wait until the building plate retracts to the TOP.
- 5 Z-axis Calibration is now complete.



04 Perform the Printing Test

After conducting the Z-axis Calibration and LCD TEST, let's move on to the Printing Test.

Prepare Your 3D File

- 1 On your computer, import the STL file to CHITUBOX V1.6.5 or above.
- 2 Click settings to add a new printer "Sonic Mini 4K". Set your Print Parameters according to the resin you will use.
- 3 Slice the 3D file and save it as CTB file, then import it onto your USB.



Download Slicer

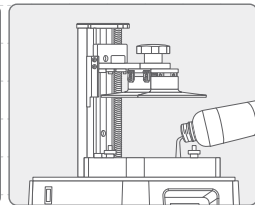
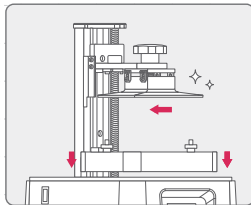


Resin Profile

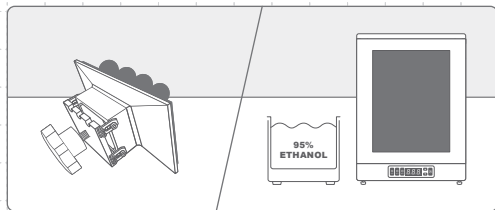
Find out our recommended resin profiles to have the best printing performance.

Printing Test

- 1 Install the building plate and resin vat to your Sonic Mini 4K.
- 2 Make sure that both the resin vat and the building plate are clean and do not have any residual resin.
- 3 Shake the resin bottle for 1 minute. When pouring, make sure the resin does not exceed the mark on the resin vat.
- 4 Insert your USB into Sonic Mini 4K. Choose the file and click GO to begin printing.



- 5** Keep the plastic case closed during printing to prevent excessive UV light.
- 6** Once printing is complete, remove the building plate from the printer. Then tilt and place the building plate onto a table and use the metal scraper to carefully remove your print.
- 7** Use 95% sanitizing alcohol or Phrozen Wash Resin Cleaner to rinse your printed model. Then cure your models with a Post-Curing Chamber, After curing, your first print is complete.



After-sales service & warranty

- Phrozen offers a one-year warranty for all parts, excluding consumable components such as the LCD screen and FEP film.
- Sonic Mini 4K LCD screen is covered under a 3-month warranty. Please note that this warranty does not cover any damages caused by human factors.
- If you encounter any difficulties, please scan the QR codes down below to contact us.

Contact us !



Congratulations!

You have just completed your first run.
We hope you've had a great experience!

Please follow Phrozen's social media accounts
and subscribe to our YouTube channel to learn
more about printing tips and share information
with the community.



Facebook



Facebook Group
Sonic Mini 4K



YouTube



Instagram