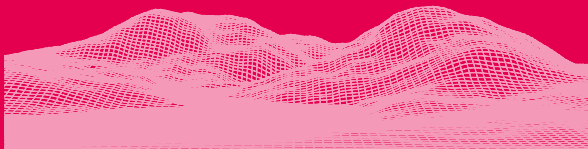


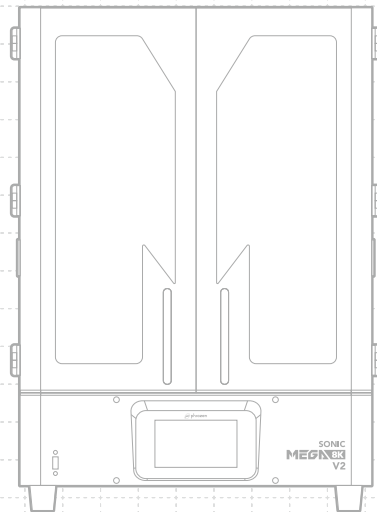


SONIC
MEGA 8K
V2



Dear User,

Thank you for joining us. Please read the Sonic Mega 8K V2 manual thoroughly and follow the instructions step by step to get the best printing experience.

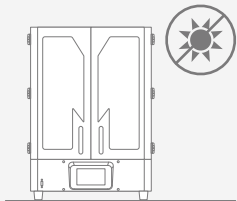




Please scan the QR code for
Sonic Mega 8K V2 user manual
in other languages.

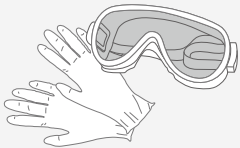
01 Key Notes Before Start	03
02 Introduction	05
03 Prepare Your 3D Printer	07
· LCD Test	07
· Z-Offset Setting	07
· Z-Axis Calibration	08
04 Prepare Your Print File	09
05 File Import	09
06 Pump and Fill Installation	10
07 First Test Print	13

01 Key Notes Before Start



Stable Printing Environment

Store your 3D printer in a dry and well-ventilated environment. Place it on a flat surface and avoid direct sunlight exposure.



Protective Measures

When handling resins or prints, please wear Personal Protective Equipment such as gloves, masks, protective goggles, and long-sleeved clothes.

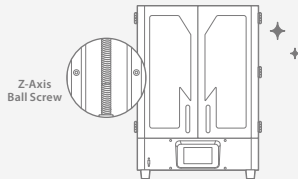
Maintenance

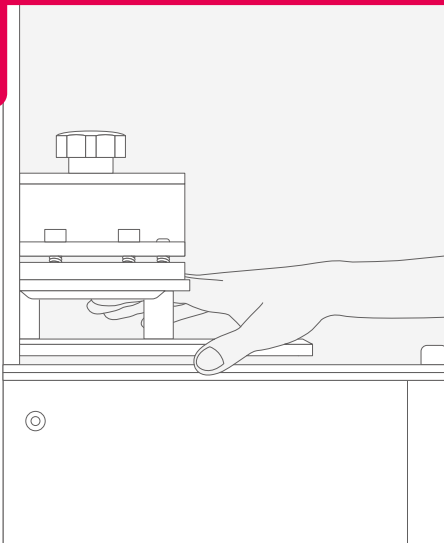
Clean the Z-Axis

First, wipe the Ball Screw with Lint Free Wipes. Then, apply some lithium-based lubricant so the ball screw spins smoothly.

Clean the 3D Printer

Use 95% alcohol and Lint Free Wipes to carefully clean the printer, resin vat, and the building plate.





Pre-Calibrated Z-Axis design

The Sonic Mega 8K V2 comes with a pre-calibrated building plate. You can start printing straight out of the box.

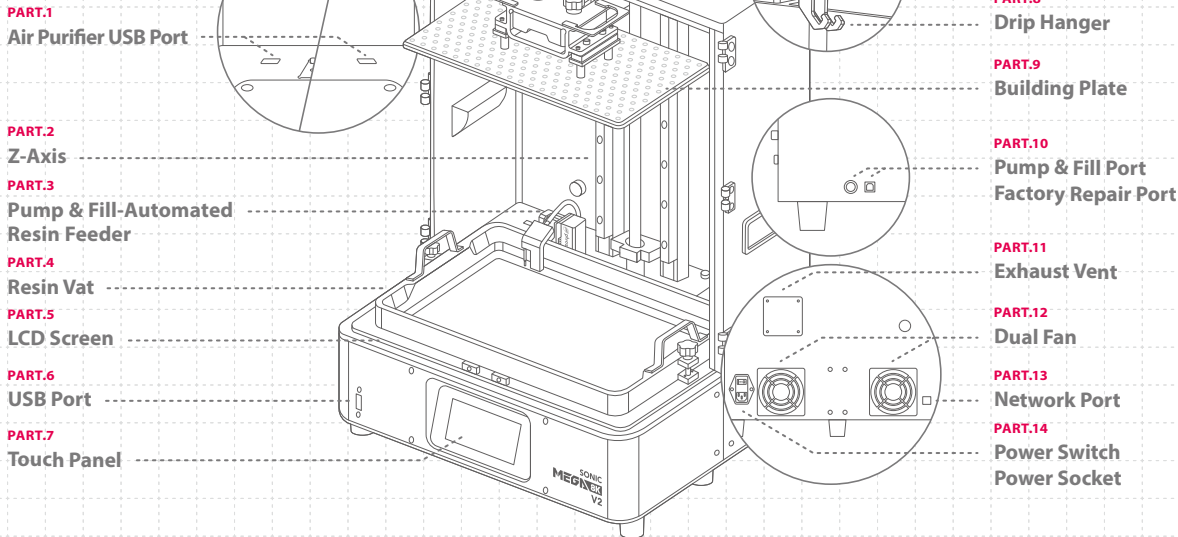
If the building plate, Z-rod, LCD panel, or screen protector was previously replaced, please perform "Z-Axis Calibration".

If you have any technical questions, please scan the QR code to contact our support team.



02 Introduction

Printer Parts



The Toolbox



Warranty Card



Gloves



AC Cable Standards
1.5 m EU/US



Plastic Funnel



Metal Scraper



Plastic Scraper



Allen Wrench Set



USB Stick



Handles



USB Air Purifier



Magnetic Fan Cover

Operation

System	Phrozen OS
Operation	5 inch Touch Panel
Slicer Software	CHITUBOX V1.9.6 and above (Or others)
Connectivity	USB

Printing Specifications

Technology	Resin 3D Printer - LCD Type
Light Source	405 nm ParaLED® Matrix 3.0
XY Resolution	43 μm
Layer Thickness	0.01 - 0.30 mm
Avg. Printing Speed	400 layers / hr
Compatible File Format	.CTB / .PRZ
Power Requirement	100-240V AC ; 50-60Hz

Hardware Specifications

Printer Size	47.5 x 40 x 68 cm
Printing Volume	33 x 18.5 x 40 cm
Printer Weight	35 kg

* All specifications were tested in a laboratory and are subject to change without prior notice. For the latest update, please refer to Phrozen's official website.

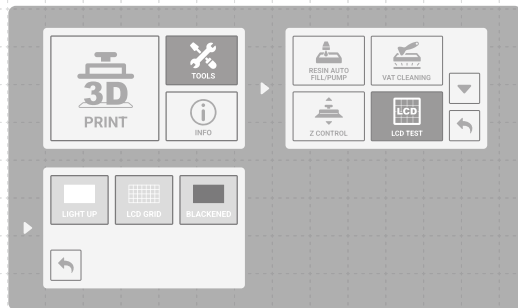
* The included power cord set packaged with the main unit cannot be used with electrical equipment other than the specified device.

03 Prepare Your 3D Printer

For first-time use, please thoroughly follow the steps below to conduct the LCD Test to make sure 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 all the images, the LCD TEST is complete.



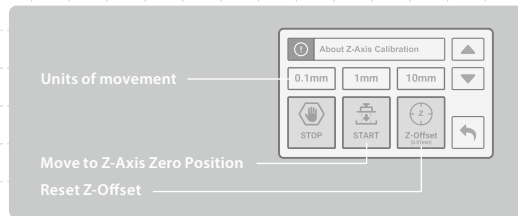
* Please refer to the actual operation situation based on the printer display.

Z-Offset Setting

Reposition your Z-Axis to print flat objects on the building plate. It is also helpful if the resin is viscous.

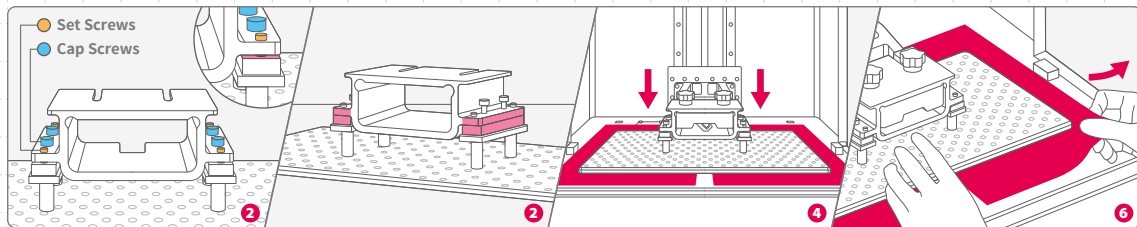
- 1 Tighten the screws on your resin vat and building plate. Make sure the building plate and resin vat are clean from any debris.
- 2 Click "Move to Z-Axis Zero Position"
- 3 Adjust the Z-Axis zero position based on your printing needs.
- 4 Click "Reset Z-Offset" then click on "SET" to complete the setting.

Tips: Reflashing the firmware and performing Move to Z-Axis Zero Position will reset the Z-Offset setting. Please check the Z-Offset setting before each printing.



Z-Axis Calibration

- 1** Remove the resin vat and the building plate. Clean the building plate and place it on a clean flat surface.
 - 2** Loosen the 4 **cap screws** on the building plate, and loosen the 4 **set screws** until the gap is no longer visible. Check if the upper part of the building plate can make contact with the lower part.
 - 3** Restore the building plate back onto the printer, Ensure that both the building plate and the LCD panel are clean and free of foreign objects.
 - 4** Place an A4 paper on each side of the LCD panel. Click " Move to Z-axis zero point " and wait for the building plate to be leveled against the LCD panel.
 - 5** Diagonally tighten the 4 **set screws** until they make contact with the blocks below. Then tighten the 4 **cap screws**.
 - 6** Pull the A4 paper at the 4 corners to ensure equal friction between them to complete the Z-axis calibration.
- If the friction is uneven, simply loosen and tighten the 4 **cap screws** to adjust.



04 Prepare Your Print File

The Sonic Mega 8K V2 supports both .CTB and .PRZ file formats. Use slicer software to turn .STL and .OBJ files into .CTB or .PRZ files.

Convert .STL/.OBJ File to .CTB/.PRZ File

- 1 Import .STL or .OBJ files into the slicer software and add supports to your models to secure them to the building plate.
- 2 Choose the "Sonic Mega 8K V2" printer in the slicer. Set the resin parameters according to your resin and slice.
- 3 After the slicing is completed, save it as a .CTB or .PRZ file and the file is ready to be printed.

Test Files for Your First Print

- 1 The USB included in the toolbox contains both .STL and .CTB files of two test models: "Phrozen_test" and "Phrozen_XP_Finder".
- 2 You can directly print the .CTB files in the USB with Aqua-Gray 8K Resin. If you are printing with other resins, slice the .STL files with the suitable parameter settings required for your resin.



Slicer Software



Supports Tutorial



Resin Parameters



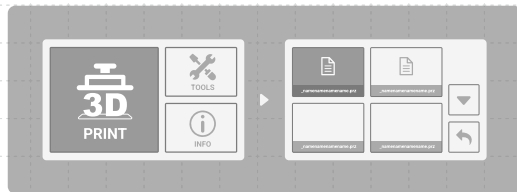
Learn and Download
Phrozen_XP_Finder

05 File Import

Sonic Mega 8K V2 can import files via USB.

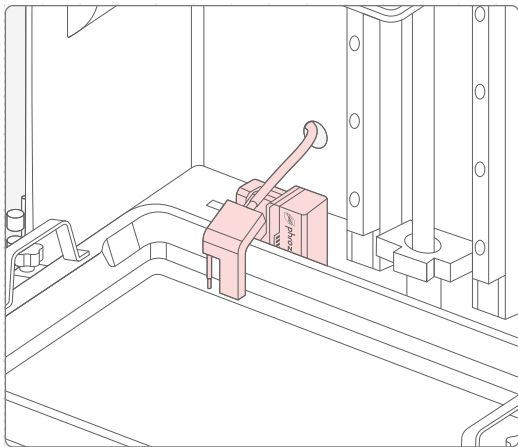
Import Files via USB

- 1 Save the .CTB or .PRZ file to your USB, and plug the USB into the printer.
- 2 On the "Print" menu on your touch panel, click "PRINT" > select the file you want to print > "Print".



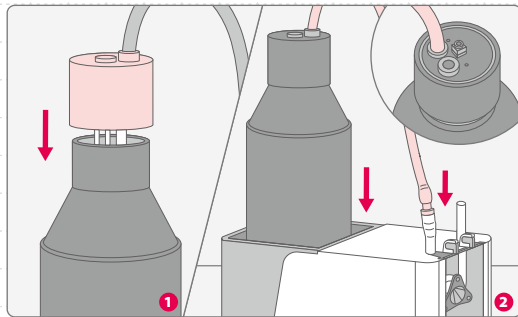
06 Pump and Fill Installation

Your Sonic Mega 8K V2 has a part of the pump & fill installed on the printer. Follow the guide here to install the other half and enable the features in the interface.



Install the Pump Unit

- 1 Insert the pump lid into the resin bottle*.
 - * Bottle cap limit : $\varnothing 37$ mm
 - * Bottle height limit : 210 mm
 - * Bottle outer diameter limit : ≤ 90 mm
- 2 Place the resin bottle into the pump case. Once the bottle is secure, connect the bottle cap infusion tube to the left side of the white peristaltic tube.



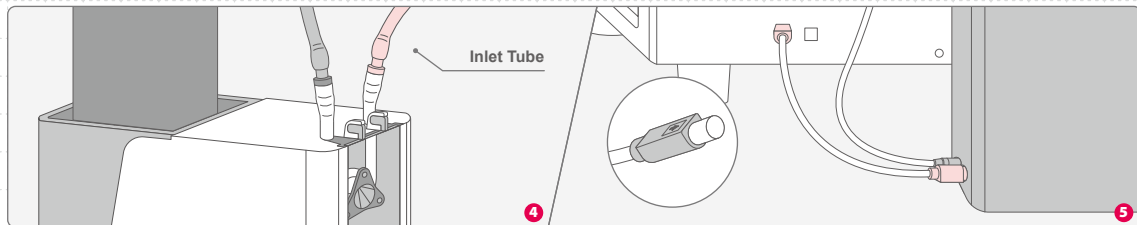
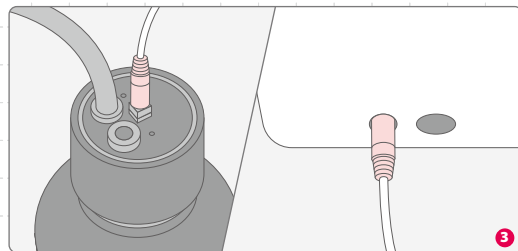
3 Connect the two ends of the lid data cable. Connect one end to the bottle cap and the other end to the plug located at the back of the pump case.

4 Connect the inlet tube to the right side of the white peristaltic tube.
* The white peristaltic tube is consumable and can be easily replaced in case of wear and tear.

5 Connect the two ends of the pump data cable. Connect one end* to the left rear side of the printer's pump & Fill port and the other end** to the back of the pump case.

* Ensure the arrow symbol on the pump data cable faces upwards when you connect it to the printer.

** Ensure the arrow symbol on the pump data cable faces downwards when you connect it to the pump case.



Machine Settings

To Activate the Pump & Fill Function

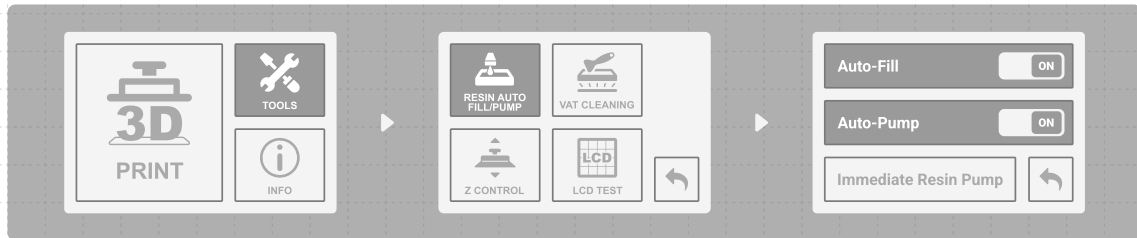
Click on the "TOOLS" button and select the "RESIN AUTO FILL/PUMP" function. You will then be presented with three options:

- 1 "Auto-Fill ": allows the printer to automatically fill the resin.
- 2 "Auto-Pump ": allows the printer to automatically pump the resin back into the bottle.
- 3 You can also start the pumping process instantly by clicking the "Immediate Resin Pump" button.



PRECAUTIONS

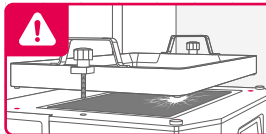
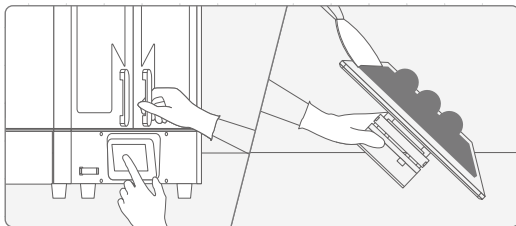
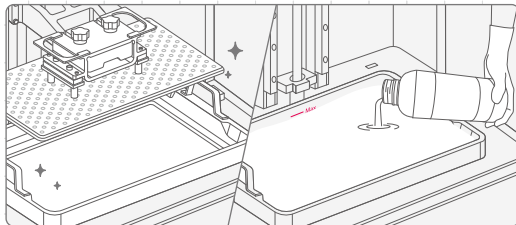
- | When the "Auto-Fill Resin" function is turned on, the printer will first fill the resin until the liquid level reaches 7~9mm before it starts printing. If you fail to reach this liquid level, a warning will pop up on your printer's touch screen, indicating that the printing process cannot be performed.
- | When the liquid level is lower than 7~9mm, the device will automatically start to fill back the resin.
- | When the "Auto Pump" function is turned on, the resin will be automatically pumped back into the resin bottle for 10 minutes following the completion of the print job.
- | Place the machine on a clean and level surface.
- | The automatic resin pump will extract most of the resin, but we still recommend you clean the resin vat.



07 First Test Print

Use Aqua-Gray 8K Resin and the "Phrozen_Mega_XP_Finder_Mega8KV2_AQ8K.ctb" file to perform the test.

- 1 Tighten the screws on your resin vat and building plate. Make sure the building plate and resin vat are clean from any debris.
- 2 Shake the resin bottle for 1 minute. Pour the resin into the vat without exceeding the maximum mark.
- 3 Insert the USB, find the test file named "Phrozen_Mega_XP_Finder_Mega8KV2_AQ8K.ctb" and start printing it with Aqua-Gray 8K resin.
- 4 While printing, please keep the printer door closed to prevent light exposure that may affect your prints.
- 5 Once the printing is completed, carefully remove the building plate and use a metal scraper to carefully remove your print.
- 6 Use a 95% sanitizing alcohol or a Phrozen Wash Resin Cleaner to clean your printed models. After it's fully dried, post-cure your models with a Curing Station.



NOTICE: When installing the resin vat, please align the screws at the bottom of the resin vat with the platform grooves to avoid damage caused by the screws scratching the LCD panel.

After-Sales Service & Warranty

- Phrozen offers a one-year warranty for all parts, excluding consumable components such as the LCD screen and vat film (ACF) .
- Sonic Mega 8K V2 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 code 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 Mega Series



YouTube



Instagram