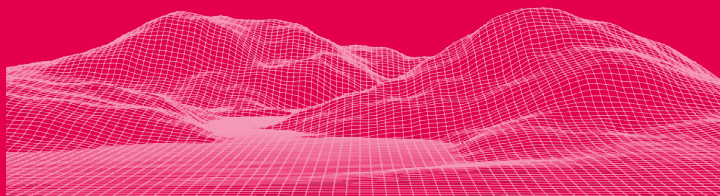




SONIC MIGHTY REVO 16K MAX



Dear User,

Thank you for joining us. Please read the Sonic Mighty Revo 16K MAX User Manual thoroughly and perform a test print to achieve the optimal printing experience.

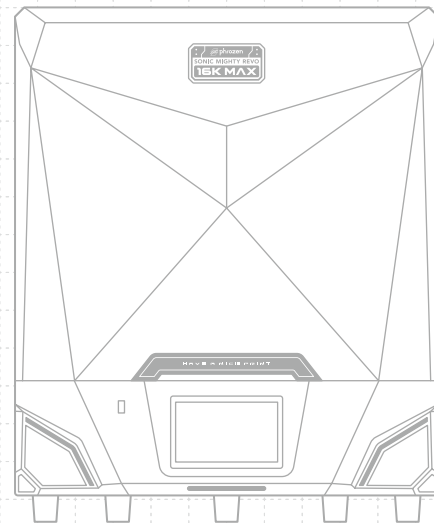




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01 Safety and Compliance

Safety Messages

Symbol	Name	Description
	"ON" (power)	Indicates connection to the mains supply.
○	"OFF" (power)	Indicates disconnection from the mains supply.
	General warning sign	Signifies a general warning.
	Caution: hot surface	Indicates that the marked item can be hot and should not be touched when it is still hot.
	Warning: dangerous voltage	Indicates hazards arising from dangerous voltages.

Symbol	Name	Description
	Warning: hand crush hazard	Indicates a risk of hand or finger injury due to moving mechanical parts or pinch points.
	Warning: ultraviolet radiation	Exposure to UV light can be harmful to skin and eyes, using UV cover on the unit or protective equipment to avoid direct eye or skin exposure to UV light.
	Earth/Ground	Used to identify an earth (ground) terminal.

Certifications and Compliance

Symbol	Name	Description
	Authorized representative in the European Community	Indicates the Authorized representative in the European Community.
	Authorized representative in the United Kingdom.	Indicates the Authorized Representative in the United Kingdom.

Symbol	Name	Description
	WEEE symbol	Indicates that waste electrical and electronic equipment must not be disposed of as unsorted municipal waste and must be collected separately. Please contact an authorized representative of the manufacturer for information concerning the decommissioning of your equipment.
	Serial number	Indicates the manufacturer's serial number.
	Consult instructions for use	Indicates that the user should consult the instructions for use before operating the device.



Hazards

Electrical Safety

DANGER

- Operate the device only under the conditions specified in this manual. Failure to do so may result in equipment damage, inaccurate printing results, or personal injury.
- Do not remove the device cover or expose internal components, as this may lead to electric shock.

DANGER

- To prevent personal injury, place the device on a stable, level surface that can support its weight and ensure that it is securely positioned to prevent accidental movement.
- Do not place your hands or head inside the device while it is operating. Doing so may cause personal injury.

Power Supply Requirements

WARNING

- Use only the power cord provided by the manufacturer. It is designed specifically for this device and should not be used with other equipment.
- The power outlet must be a standard three-prong socket, and the ground terminal must be connected to the protective grounding of the power system (as required or permitted by local regulations).

- Ensure that the grounding cable is connected according to applicable standard or with guidance from an experienced electrician.
- Make sure the power switch is in the off position before connecting to the power supply.
- Before disconnecting from the power source, ensure the printing task is complete, the control software is closed, and all access doors or covers are shut. Failure to do so may damage the device.

Daily Maintenance

WARNING

Maintaining the power supply

- If the device will not be used for seven days or longer, turn it off and unplug the power cord.
- Before each use, check that the power cord and cables are securely connected and undamaged, or contact the technical support if a replacement is required.

Regulatory Information

1 FCC Information for USA

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - This device may not cause harmful interference, and
 - this device must accept any interference received, including interference that may cause undesired operation.
- This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the device and receiver.
 - Connect the device into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.
- The device has been evaluated to meet general RF exposure requirement.
- This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

- To comply with FCC RF exposure requirements, the device must be installed and operated 20 cm (8 inches) or more between the product and all person's body.
- This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

2 ISED Information for Canada

- ISED Canada RSS-Gen Notice: (EN)

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

(FR)

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- L'appareil ne doit pas produire de brouillage;
- L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

- CAN ICES-003(B) / NMB-003(B)

- RF Exposure Guidance Statement

(EN)

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

(FR)

- Lors de l'installation et du fonctionnement de cet équipement, la distance minimale entre le radiateur et le corps doit être de 20 cm.
- Remarque : la bande de fréquences 5150–5250 MHz est réservée à une utilisation à l'intérieur uniquement.

- Detachable antennas (If use)

(EN)

For licence-exempt device with detachable antennas This radio transmitter has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Antenna Type: External rubber stick antenna

WIFI 2.4GHz Peak ' Gain: 4.47dBi

WIFI 5GHz Peak ' Gain: B1: 4.71dBi; B4: 3.86dBi

(FR)

Le présent émetteur radio a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

L'antenne Type: External rubber stick antenna

WIFI 2.4GHz Peak ' Gain: 4.47dBi

WIFI 5GHz Peak ' Gain: B1: 4.71dBi; B4: 3.86dBi

3 NCC Warning:

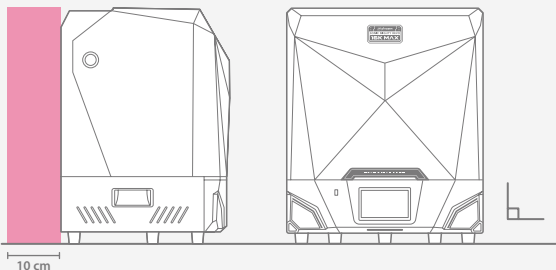
- The product has obtained certification for low-frequency radiation materials that comply with the core standards. Users are advised that the product should not interfere with self-adjusting frequency, and it enhances power conversion efficiency and functionality.
- Low-frequency radiation materials must be used without interfering with flight safety and communications. In case of interference, the product should be immediately powered off, and improvements must be made to prevent abnormal usage. Communication with authorities should be made before using the product to ensure compliance with telecommunications regulations.
- Low-frequency radiation materials must comply with laws governing telecommunications, industry standards, and medical equipment related to electromagnetic radiation.
- The product should avoid interference with nearby communication systems.
- The high-gain directional antenna is intended for use only in fixed-point-to-point systems (if used).

02 Safety Guidelines

Operating Environment

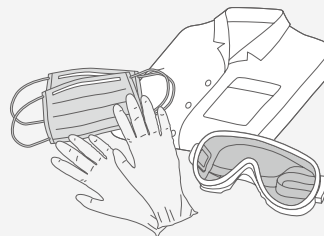
- Place the device on a flat, stable work surface in a dry, well-ventilated indoor environment. Ensure at least 10 cm of clearance is reserved at the rear of the device.
- Avoid exposure to direct sunlight and high temperatures.
- Keep the device and its accessories away from children.
- Make sure the device's power cord is properly grounded. Improper grounding or failure to ground can increase the risk of electric shock.
- Ensure proper protection against water, moisture, and dust. If the device remains idle for an extended period, make sure to unplug the power cord.

 20 ~ 30°C / 68 ~ 86°F	 40 ~ 60% RH
 For use below 2000 m altitude For use in non-tropical climates only	 For indoor use only Pollution degree 2



Protective Measures

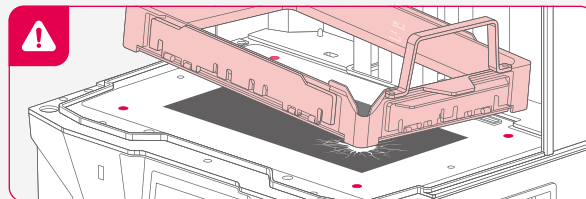
When handling resins or prints, please wear personal protective equipment such as gloves, masks, protective goggles, and long-sleeved clothes.



Resin Vat Installation

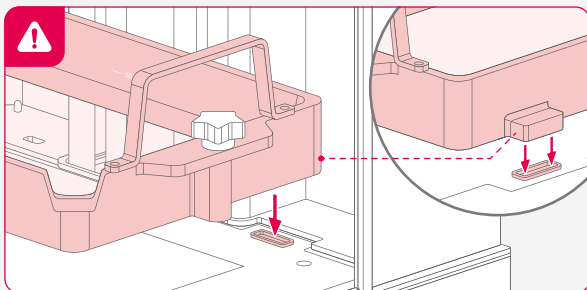
Align the four alignment pins at the bottom corners of the resin vat with the four recesses on the platform.

Caution: Do not let the resin vat hit the LCD screen.

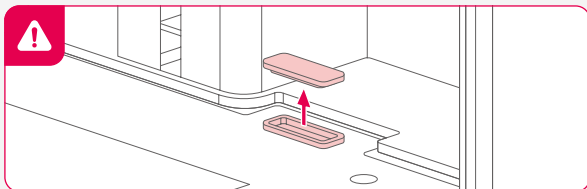


Heated Resin Vat Installation Guide (Optional)

Align the Heated Resin Vat Contacts to the Heated Resin Vat Connection Port.



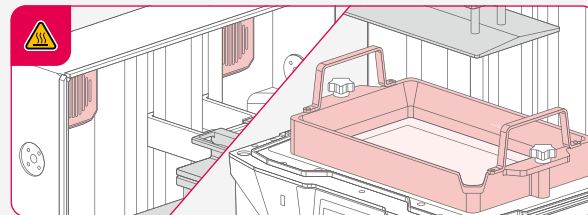
Remove and keep the Silicone Protective Cover safe before installation.



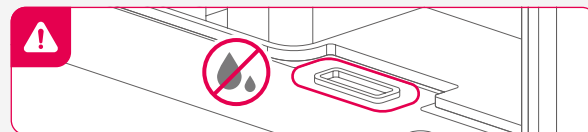
Safety Warnings

When a print job has just completed: The temperature inside the chamber and its components will be high. Please exercise extreme caution when removing the model and the build plate, and avoid touching the heater.

* The operating temperature of the heated resin vat is significantly higher than the standard resin vat. Handle with care when removing or handling the vat to avoid burns.



DO NOT allow liquids to come into contact with the metal contacts to avoid short-circuits.



03 Introduction

Product Description

Intended Use	Desktop-level LCD model, suitable for printing with resin materials, industrial design, education, animation, applications, etc.
Working Principle	Utilizes light source to cure resin layer-by-layer based on model data, ultimately forming a three-dimensional solid.
Structural Composition	Optical system (405nm parallel light source), control system, Quick-Release Resin Vat, Heated Resin Vat (Optional), heating system, Z-axis motion structure.

Printer Parts

PART.1

Build Plate Quick Release Lever

PART.2

Quick-Release Build Plate

PART.3

Quick Release Resin Vat

PART.4

LCD Screen

PART.5

USB Port

PART.6

Touch Panel

PART.7

Status Light

* For detailed status light indicators,
please refer to the ["LED Status Guide" on p.14.](#)

PART.8

Lift-Up Lid

PART.9

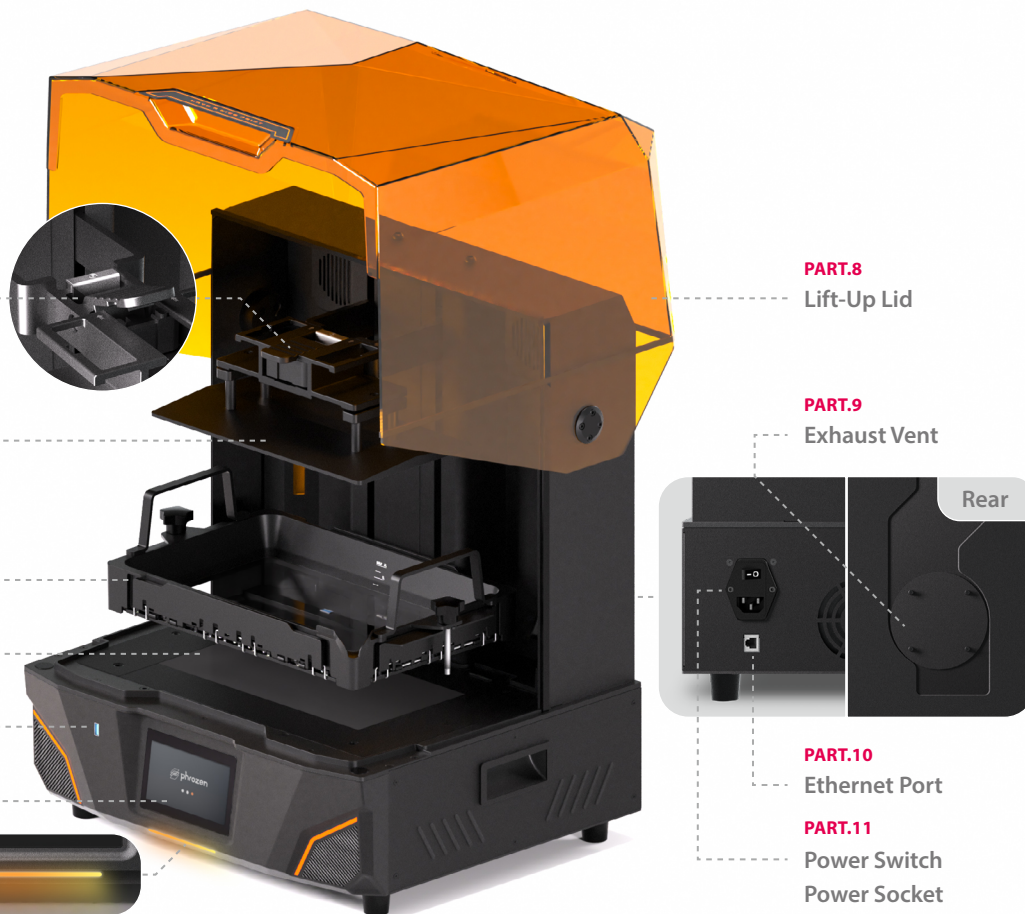
Exhaust Vent

PART.10

Ethernet Port

PART.11

Power Switch
Power Socket



PART.12

Heater

PART.13

Interior Light

PART.14

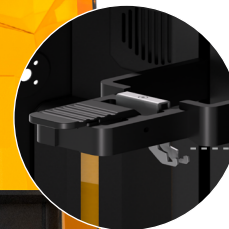
Temperature Sensor

* Do not touch, pull, or remove, as this may cause abnormal temperature detection and lead to heating failure.



PART.15

Air Purifier USB Port



PART.16

Drip Hanger

PART.17

Z-Axis Cover



PART.18

Z-Axis

PART.19

Camera

PART.20

Heated Resin Vat
Connection Port



LED Status Guide

LED Color	Status	Description
	Green	Success / Complete
	Red	Error / Failed
	Yellow	Processing
	Green with Blue Base	Printing
	Flashing Orange	Booting / Updating
	Cycling Rainbow	Standby
	Breathing White	



Specifications

Model	Sonic Mighty Revo 16K MAX LCD 3D Printer
Input	100-240V~ ; 50/60Hz
Power	435W

Operating System

System	Phrozen OS
Touch Panel	5" (720P)
Slicer	Chitubox
Connectivity	USB Wi-Fi Ethernet
Internal Storage ¹	8.0 GB
Camera	Built-in (1080P FHD)

Technical Specifications

Technology	Resin 3D Printer - LCD Type
Light Source	405nm UV-LED
XY Resolution	20 x 26 μm
Layer Thickness	0.01 ~ 0.20 mm
Average Printing Speed	245 layers / hr
Compatible File Format	.prz

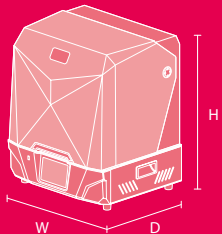
Hardware Specifications

Product Dimensions (W x D x H)	520 x 450 x 627 mm
Clearance Height	860 mm
Build Volume ² (W x D x H)	302.4 x 161.98 x 300 mm
Max. Resin Vat Capacity	2 L (Up to MAX line)
Heating System	Dual Chamber Heating Fans
Weight	29 kg
Radio Frequency and corresponding Maximum Conducted Output Power	802.11n /MCS7: 14 dBm $\pm$ 1.5 dB
	802.11ac/MCS7: 10 dBm $\pm$ 1.5 dB
	802.11ac/MCS9:10 dBm $\pm$ 1.5 dB

¹ Actual usable capacity may be less due to system files and system maintenance.

² The final print dimensions may deviate from those displayed in the slicing software due to hardware tolerances, slicing settings, or post-processing. Please refer to the actual dimensions of the printed object.

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](#).



Accessories



Warranty Card



PIXUP Card



Gloves



Power Cord



USB



Plastic Funnel



Metal Scraper



Plastic Scraper



Hex Wrench Set



Torque Screwdriver



Air Purifier



Resin Filter Paper x3 (100 Mesh)



Leveling Paper

04 Unboxing and Setup

Unboxing

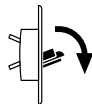


For safety reasons, it is recommended that two people work together to unbox and setup the device.

- 1 Remove the four box clips from both sides of the packaging, then lift off the outer lid.



Follow the illustration on the box, press the center of the clip and pull it out to remove.



- 2 Remove the power cord accessory box from the top and the cardboard edge protectors.



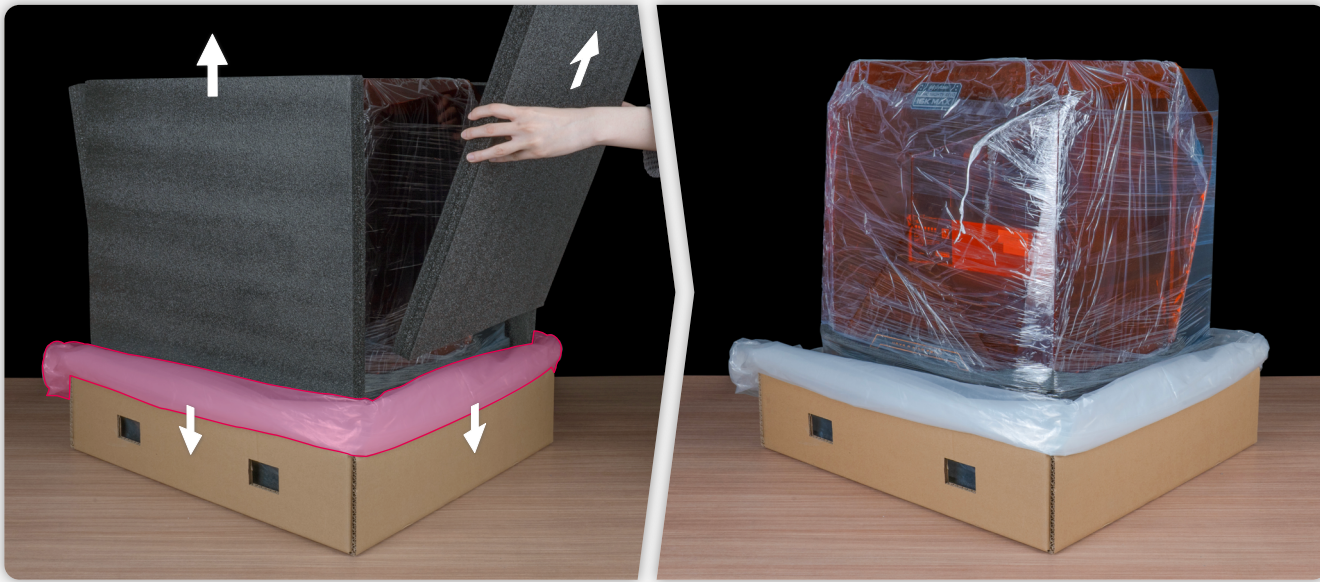
3 Remove the middle sleeve.



Refer to the illustrations on the box to easily transform the middle sleeve into a storage box.



- 4 Pull the **packaging bag** down to the bottom, then remove the **black EPE foam cushions** around the device.





For safety reasons, it is recommended that two people work together to unbox and setup the device.

5 Lift the device out.



- 6 Open the lid, and remove the foam from the top of the interior and both sides of the build plate.



7 Detach the build plate.

- Cut the cable tie on the build plate, then remove the cable tie and the EPE foam.
- Flip the build plate quick-release lever upward to unlock.
- Pull the build plate toward yourself and carefully remove it.



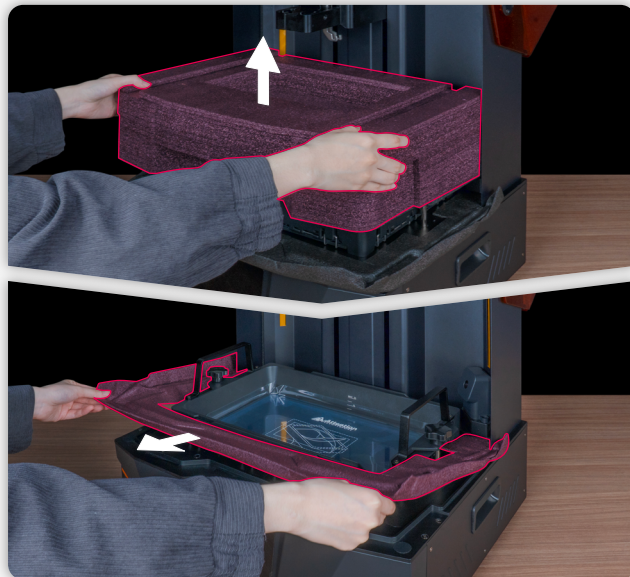
04 Unboxing and Setup

Unboxing

8 Take out the accessory box.



9 Take out the bottom foam to complete the unboxing.



Getting Started

- 1 Check the accessory box contents.



- 2 Loosen the thumbscrews on both sides of the quick-release resin vat and lift to remove the resin vat.



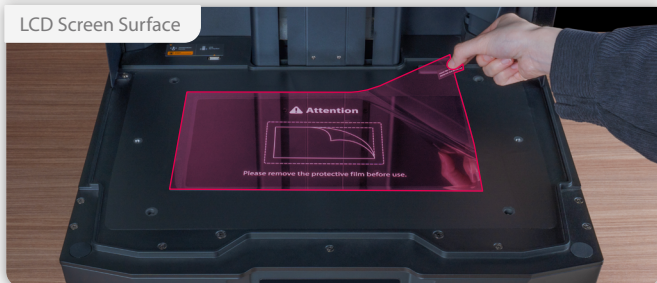
04 Unboxing and Setup

- 3 Ensure all protective films are removed from the **build plate**, **resin vat**, and **LCD screen**.

Build Plate Bottom



LCD Screen Surface

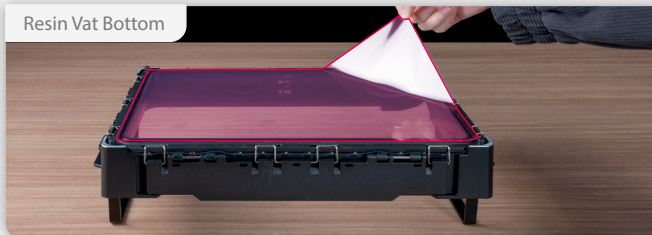


Remove the protective films from both sides of the resin vat before installation to ensure print quality.

Inside of the Resin Vat



Resin Vat Bottom



- 4** Connect the power cord and turn on the power switch located at the back of the printer.



- 5** Plug the air purifier into the USB port located on the left side of the Z-axis. Press the center button to turn it on as needed.

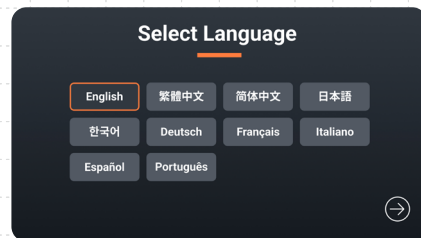


Initial Setup

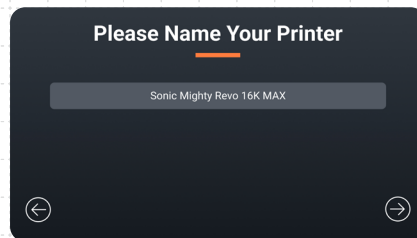
Please follow the on-screen instructions to complete the initial setup.

"Select Language" > "Name Your Printer" > "Internet connection" > "App Binding (Phrozen GO)" > "LCD Test" > "Leveling Check" > "Test Print (Print the XP Finder)".

1 Select Language



2 Name Your Printer



3 Internet connection



4 App Binding (Phrozen GO)

Please download Phrozen GO and scan the QR Code on the printer to complete the connection setup.

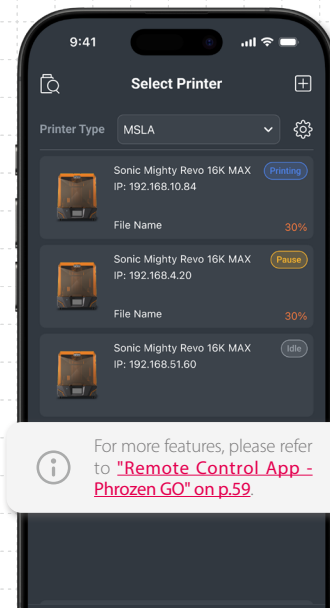
Scan the QR Code to download the Phrozen GO App.



Android



iOS



5 Initial Setup

Please follow the on-screen instructions to conduct the "LCD Test", perform the "Leveling Check", and run a "Test Print".

Initial Setup

Please follow these steps to conduct the LCD Test, perform the Leveling Check, and run the printing test.

Skip

Next



- Please **remove the resin vat** before performing the LCD test.
- Avoid direct eye contact with UV light (protective goggles recommended).

1 LCD Test

Three patterns will display on the LCD screen: Lightup, LCD Grid, and Blackend. The test is complete when all patterns are shown clearly.

LCD Test

The printer will automatically test the LCD in three different modes. Please remove resin vat and avoid eye contact with the UV light.

Next

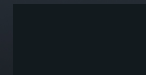
Lightup



LCD Grid



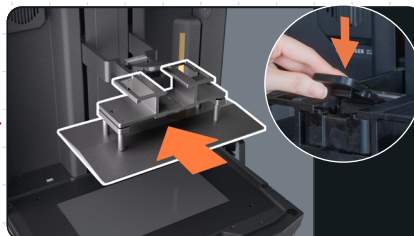
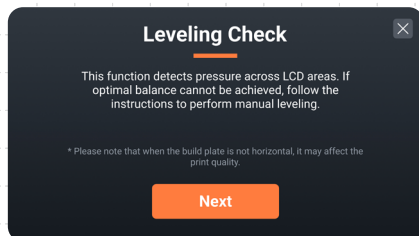
Blackend



2 Leveling Check

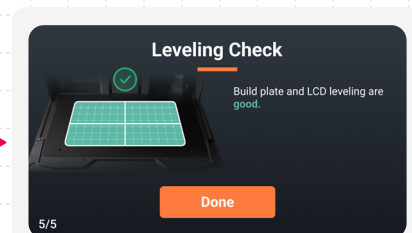
This function detects pressure across LCD areas. If optimal balance cannot be achieved, follow the instructions to perform manual leveling.

- Install the build plate, then support it with one hand and press down the quick-release lever with the other to secure it.
- Remove the resin vat and place the leveling paper on the LCD screen.

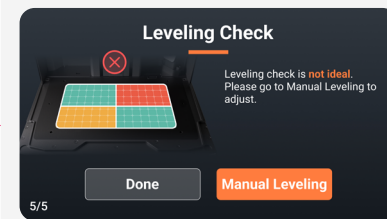


Make sure the build plate and LCD surface are clean and free of debris before leveling.

- Determine whether manual leveling is required based on the check results.



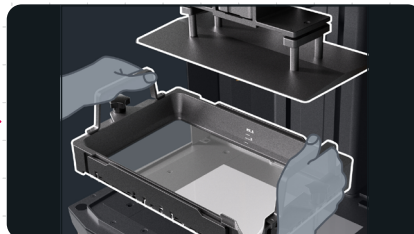
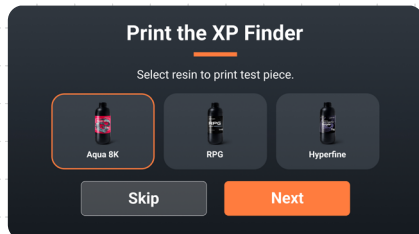
or



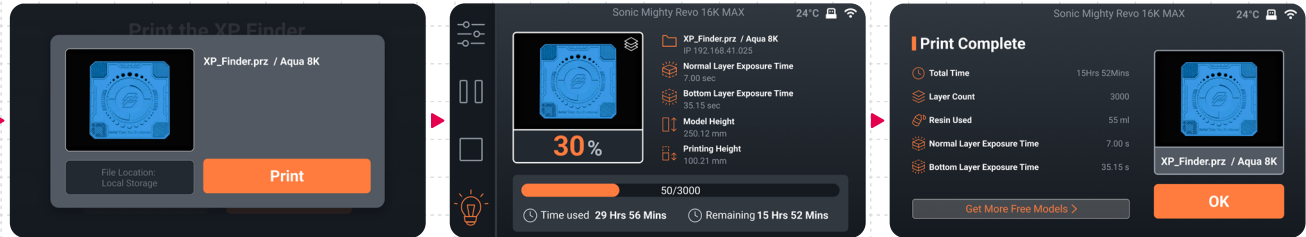
- If the leveling test fails, perform **Manual Leveling** before printing any test models.
- For detailed manual leveling steps, please refer to **"Manual Leveling" on p.36**.

3 Test Print (Print the XP Finder)

- Select resin.
- Make sure the build plate and resin vat are clean and free of debris, then install them onto the printer.
- Pour resin into the vat and make sure that the resin does not exceed the MAX mark on the resin vat.



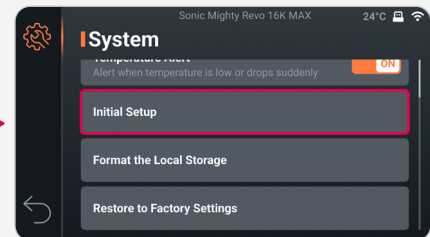
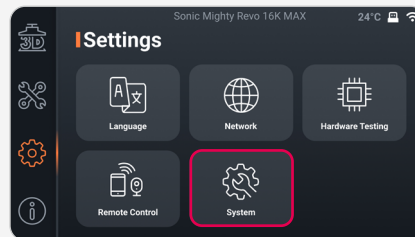
If using a non-default resin, please use slicing software to slice and print the test file.



If you missed the Initial Setup you can restart it in the following way:

Initial Setup

Go to "Settings" ⚙️ > "System" ⚙️ > "Initial Setup".

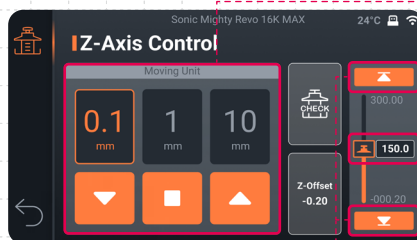
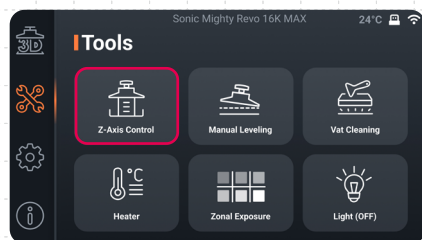


Tools Interface

1 Z-Axis Control

Select this function to enter the Z-Axis Control interface.

You can adjust the Z-axis position up or down by clicking the buttons or dragging the slider.



Set Travel Distance

Select your desired travel distance (**0.1 mm** / **1 mm** / **10 mm**), then tap  or .

Example:

Select 0.1 mm and tap ; the Z-axis will move down by 0.1 mm in a single step.

Flexible Slider Adjustment

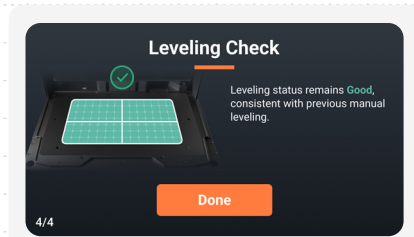
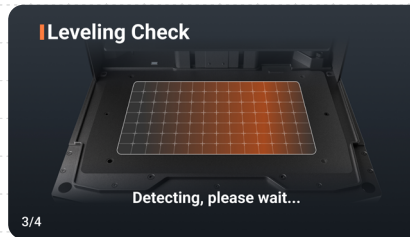
Directly drag the slider  **150.0** to quickly adjust the Z-axis position over a wide range.

One-Tap Top / Bottom

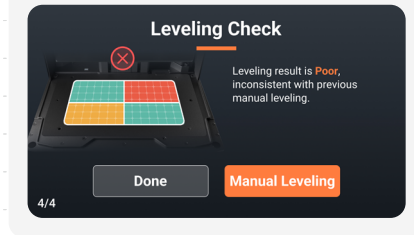
Tap  to raise the Z-axis to the top in one go;
tap  to lower the Z-axis to the bottom.

2 Leveling Check

On the Z-axis control page, press the  button to enter the leveling check process and verify whether the build plate is properly leveled.



or



3 Manual Leveling

It is recommended to perform manual leveling to restore the optimal build plate gap under any of the following circumstances:

- When the build plate or LCD screen is replaced.
- When prints frequently fail to adhere to the build plate.
- When the printer or build plate has suffered a drop or impact.
- When the leveling check result is poor.



Ensure all leveling procedures are performed on a flat and stable working surface.

Tools Required



Torque Screwdriver

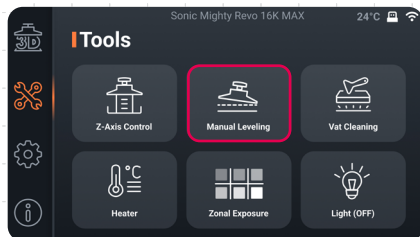


2.5mm Hex Wrench

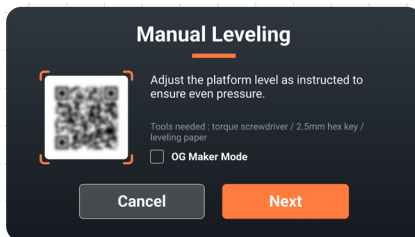


Leveling Paper

1 Go to "Tools"  > "Manual Leveling" 



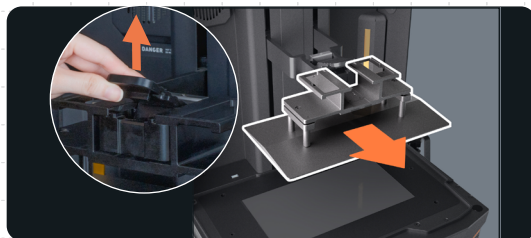
2 Please follow the on-screen instructions to level the build plate and ensure even pressure across all areas.



3 Remove the resin vat and place the leveling paper on the LCD.



- 4 Open the build plate quick-release lever, slide the build plate out, and place it on a clean, flat surface.



- 5 Loosen the two socket head screws with torque screwdriver.

* Do not loosen the screws too much to avoid the build plate falling.

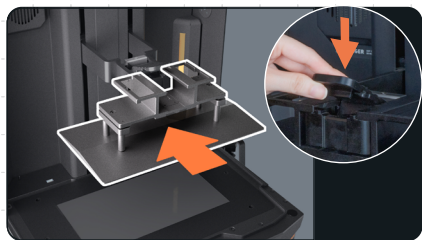


- 6 Loosen the four set screws with a 2.5 mm hex key until **the gap disappears**.

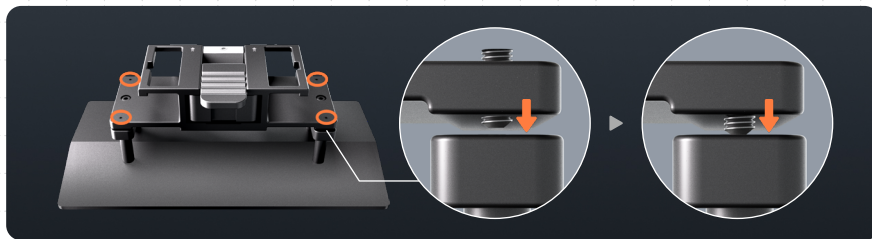
* Do not loosen the screws too much to avoid the build plate falling.



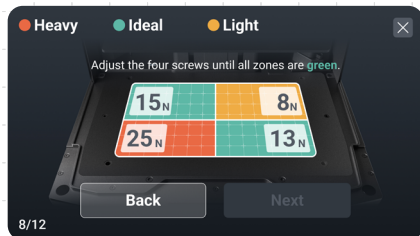
- 7 Install the build plate, then support it with one hand and press down the quick-release lever with the other to secure it.



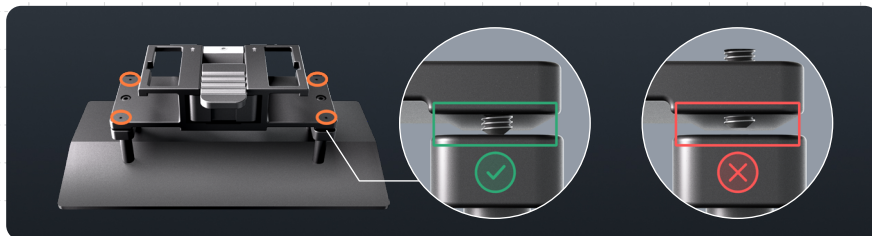
- 8 Tighten the four M5x10 set screws until they lightly touch the metal surface.



- 9 Adjust the four M5x10 set screws until all zones are green.



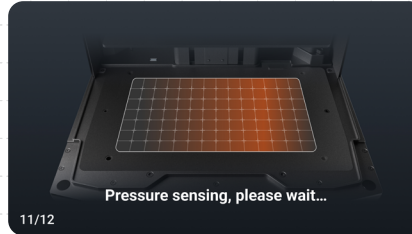
- 10 Confirm all four M5x10 set screws are touching the metal surface.



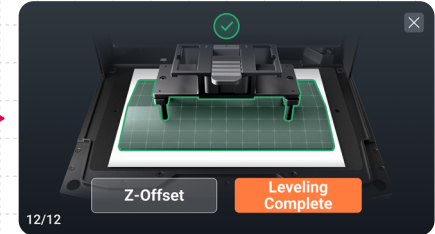
- 11 Tighten the left and right screws with the torque screwdriver until you hear a "click" sound.



- 12 Wait for the pressure test to finish. Do not touch the printer during the test. Ensure it is on a flat and stable working surface.

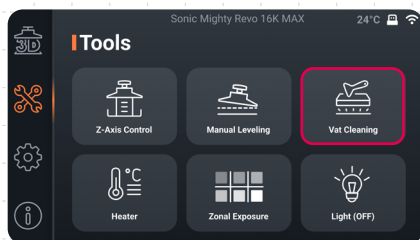


- 13 Once the ✓ appears, leveling is complete.



4 Vat Cleaning

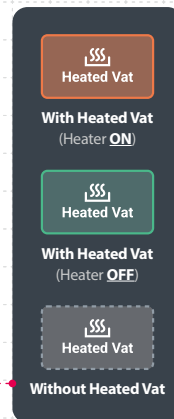
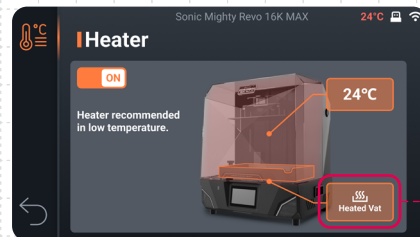
Once Vat Cleaning is enabled, the LCD screen will light up to cure residual resin into a thin layer, making it easy to peel off and clean the vat.



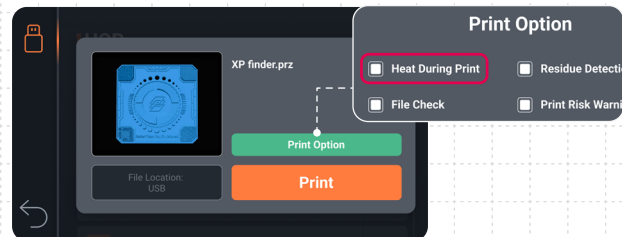
For detailed cleaning steps, please refer to the ["Printer Maintenance and Cleaning" section on p.53](#)

5 Heater

Turn on the Heater, and it will begin to heat up until it reach the target temperature.



Enable 'Heat During Print' under 'Print Option', and the printer will preheat before printing and maintain the target temperature throughout the print.



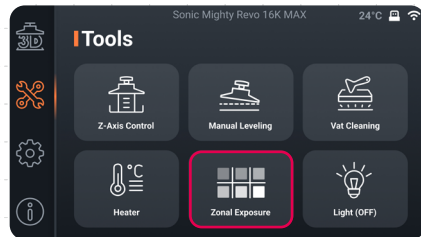
5 Zonal Exposure

This function allows you to test multiple exposure times in a single print. It is highly recommended when:

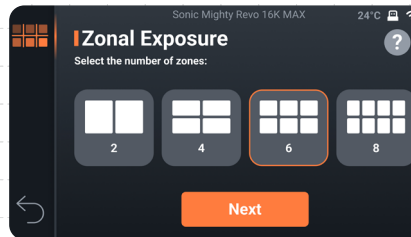
- Switching to a new resin.
- Curing results are unsatisfactory.

The printer divides the printing area into multiple zones and applies different exposure settings to each. This allows you to compare the results of each zone within a single print, helping you quickly find the optimal exposure parameters for your resin and printing environment.

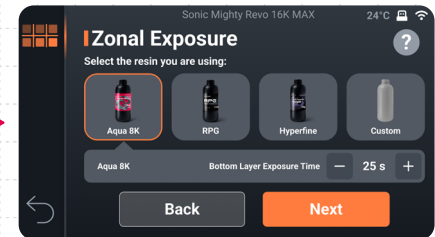
1 Go to "Tools"  > "Zonal Exposure" .



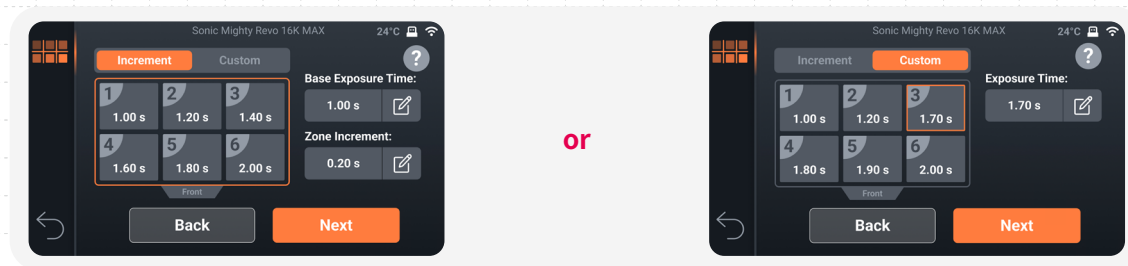
2 Select the number of zones.



3 Select the resin you are using.



- 4 Two modes are available for Zonal Exposure: 'Increment' mode and 'Custom' mode. Choose the option that best fits your needs.



Increment Mode

Enter the Base Exposure Time and Zone Increment; the system will automatically calculate each zone's exposure time.

This mode is ideal for quickly testing consecutive exposure times to find the optimal setting.

Custom Mode

Manually set the Exposure Time for each zone.

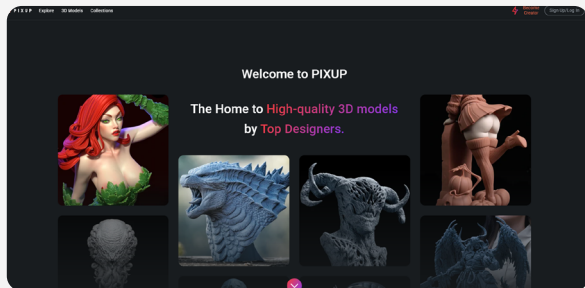
If these values do not increase progressively, the system automatically adjusts non-incremental zones in 0.1s steps, leaving other settings unchanged. This mode is ideal for precise testing and comparison of specific exposure values required for your prints.

05 Printing Guide

Preparation & Slicing

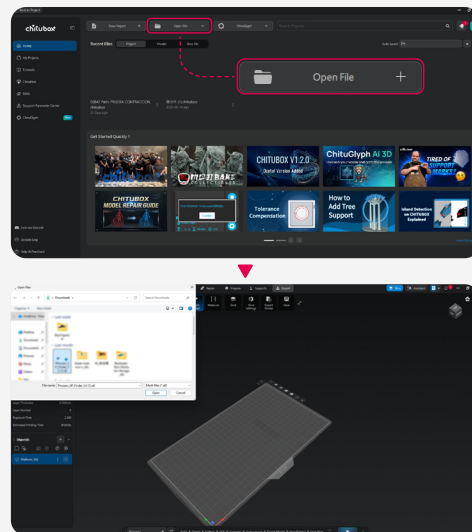
1 Model Preparation

Choose to use your own STL files, or browse and download professional models from the [PIXUP](#) platform.



2 Placement & Support Settings

Import the model into CHITUBOX slicing software. Adjust its position and angle, then add appropriate supports for overhanging structures and fine details.

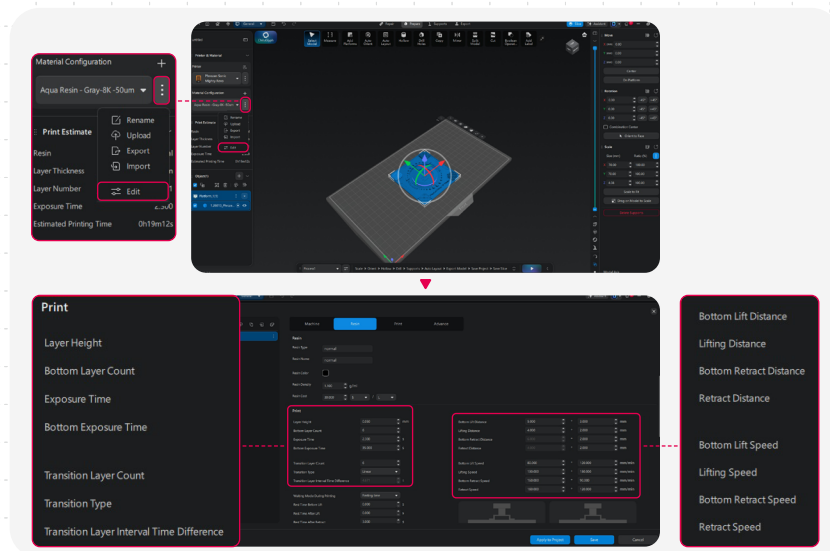


3 Print Parameter Settings

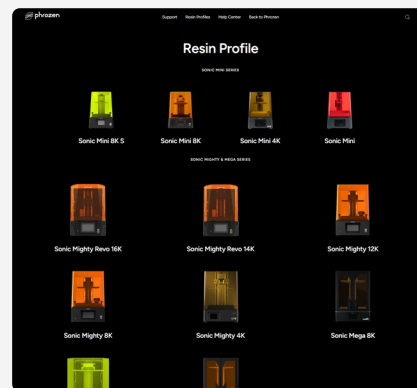
Configure the following parameters based on your selected resin:

- Layer Height
- Exposure Time
- Lifting Speed

Once configured, slice and export the file.

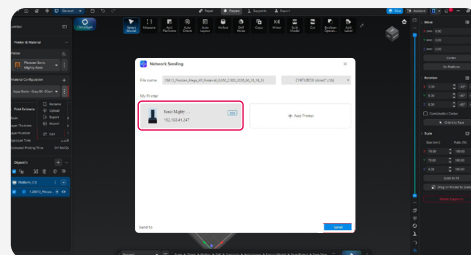
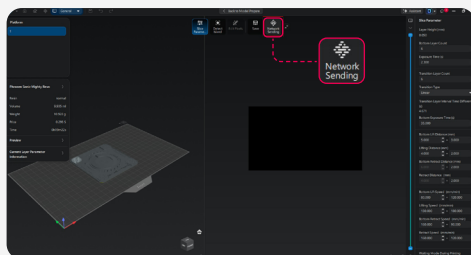
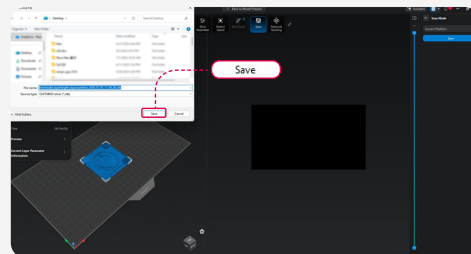
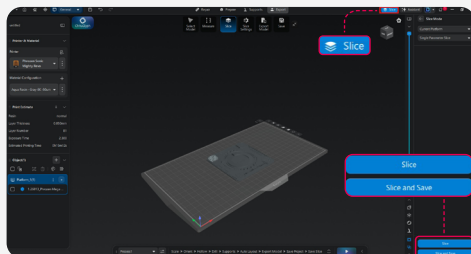


For optimal print quality, we recommend using [Phrozen official resins](#) with our suggested settings. (Please refer to the [Resin Profile](#) page on Phrozen's official website).



4 Slicing & File Export

Once the parameters are set, you can use CHITUBOX's built-in features to slice and save the file.
After slicing, you can transfer the file via a USB drive, or use ChituManager to send it wirelessly to the printer.



Printer Setup & Printing

1 Printer Setup

Complete the following preparations before printing:

- 1 Ensure there are no foreign objects on the build plate, resin vat, and LCD.



- 2 Shake the resin well and pour it into the resin vat (do not exceed the MAX line).

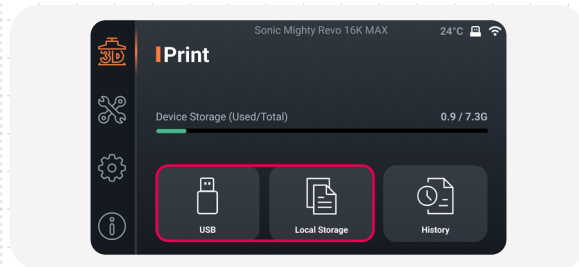


If the ambient printing temperature is low, you can turn on the chamber heating function and use it with the heated resin vat (optional) for an optimal printing experience.

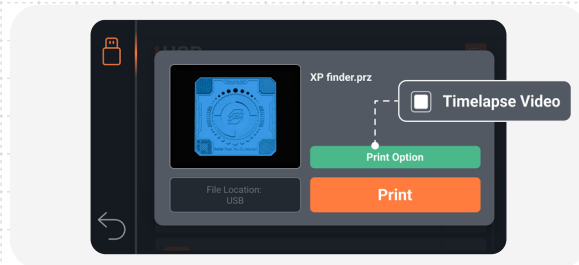


2 Start Printing

- 1 Insert the USB drive and select a print file (or select a file from local storage).



- 2 Tap the "Print Option" to enable "Timelapse Video" before printing.



- 3 Close the lift-up lid, then start printing.



Monitor the first layer to ensure the model adheres properly to the build plate.

Post-Processing

1 Model Removal

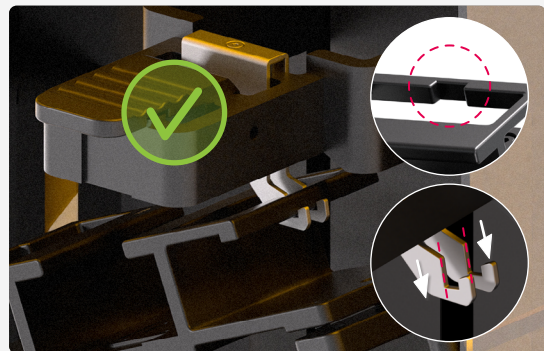


Before Model Removal:

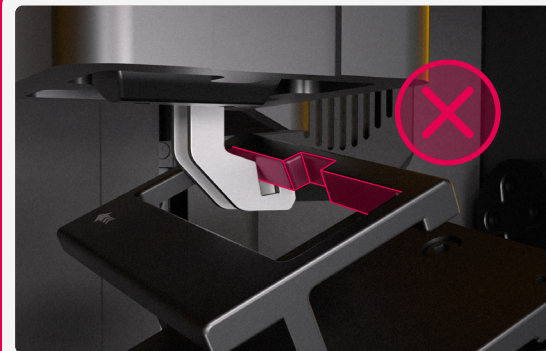
Protective Measures: Always wear a mask and protective gloves when operating to prevent direct skin contact with solvents and uncured resin.

Correct Hanging Method:

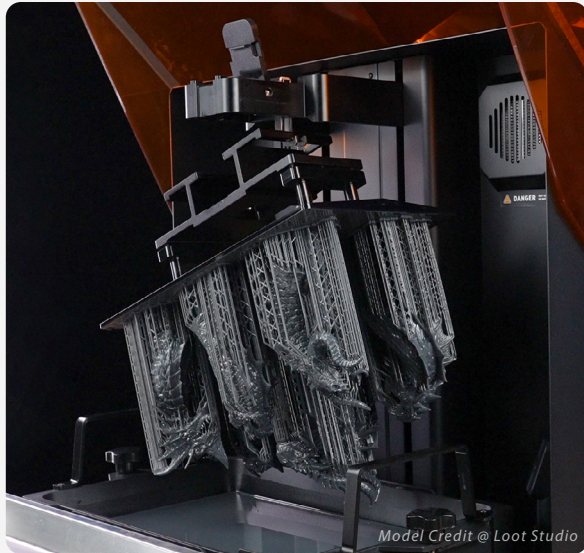
As shown in the diagram, align the groove on the build plate handle with the drip hanger, then slowly slide it down along the slope until it snaps securely into place.



If the build plate is not securely mounted, it may fall and cause severe damage to the LCD screen and internal components. To safeguard the equipment, please avoid the following improper operations:



- 1 Once printing is complete, remove the build plate and hang it onto the drip hanger.



- 2 Once excess resin has drained, carefully remove the build plate and detach the model with a scraper.



2 Wash / Cleaning

Wash the model in 95%+ alcohol or Isopropyl Alcohol (IPA) (Cleaning time depends on the size of the model.)



WARNING:

Alcohol and IPA are highly flammable. Always use in a well-ventilated area and keep away from heat, sparks, and open flames.

Waste Disposal:



- Used cleaning solution contains resin residue. Do not pour it directly down sinks or drains.
- Expose the liquid to sunlight until the resin fully cures and the solvent evaporates.
- Dispose of the cured solid waste in accordance with local regulations.

3 Drying

Air-dry naturally or use an air blow gun to ensure the model is completely dry.



4 Support Removal

Carefully remove supports using tools to avoid damaging the model's details.



Post-Curing

UV Curing

Place the model into a UV curing station to achieve its final strength.



Recommended

Phrozen Cure Mega S

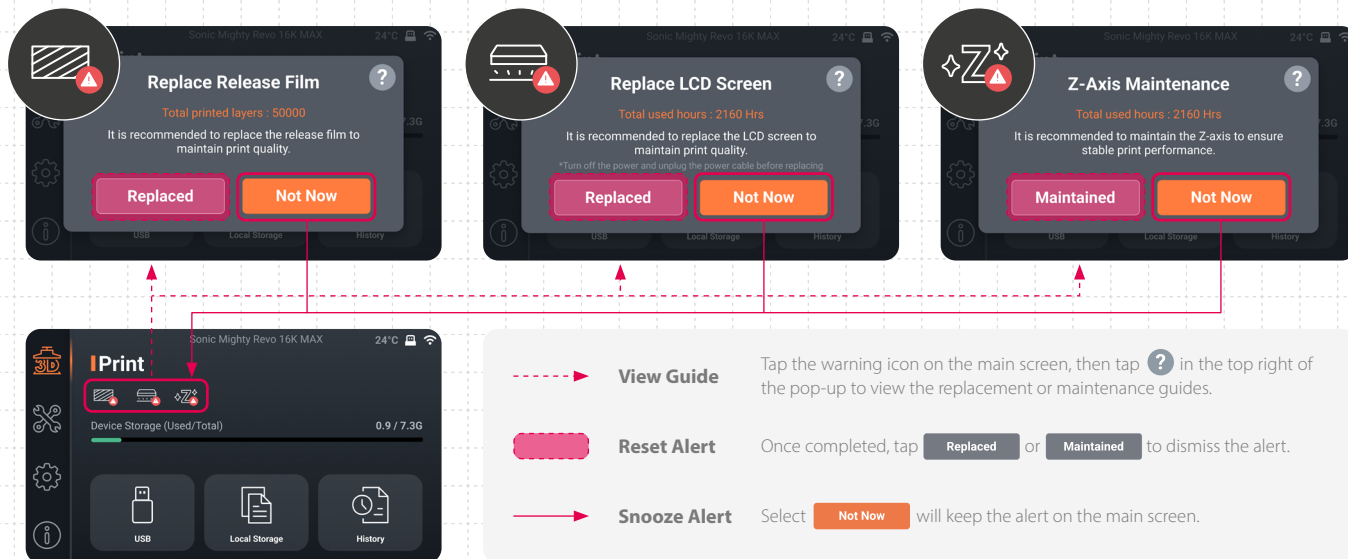
Features a rotating turntable for uniform light exposure

Model Credit @ Loot Studio

Maintenance

1 Release Film, LCD & Z-Axis Replacement and Maintenance

To ensure optimal print quality, the system automatically pops up reminders when the release film or LCD screen requires replacement, or when the Z-axis requires maintenance. If you select **Not Now**, the pop-up will close, and the corresponding alert icon  will appear on the "Print" page . Tap the icon and select the  in the top right corner to view detailed replacement and maintenance guides.

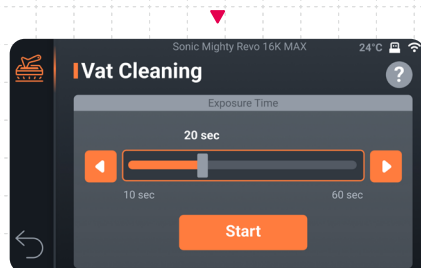
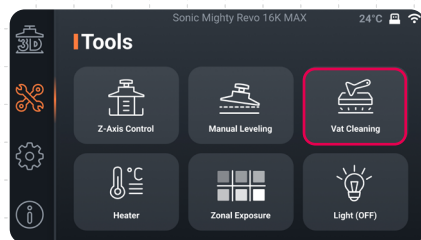


2 Printer Cleaning & Routine Maintenance

1 Resin Vat Cleaning

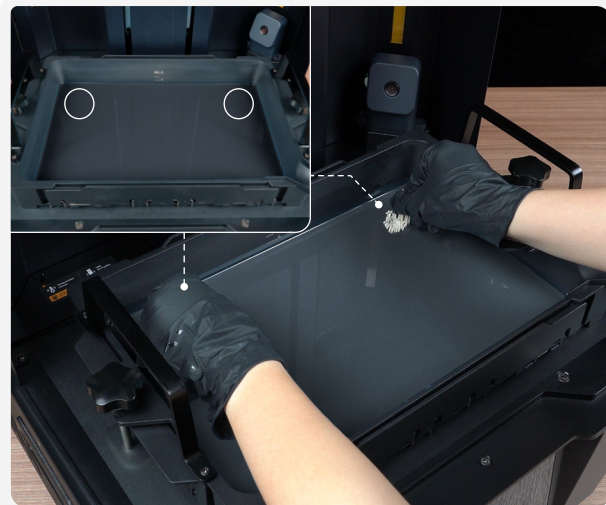
It is recommended to clean the resin vat after each print to remove cured debris. Leaving residual debris uncleared may affect the success rate of subsequent prints or cause model defects.

For a video demonstration, please go to "Tools"  > "Vat Cleaning"  and tap the  in the top right corner and scan the QR Code.

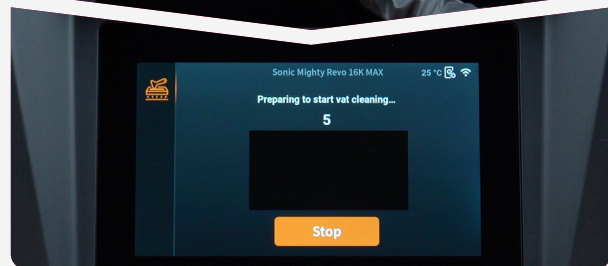


- When selecting used supports, we recommend choosing those with a raft size of approximately 3 x 3 cm, a height of 5–10 cm, thick and sturdy structures, **cross bracing**, and a **flat base**.
- Before use, clean the supports with alcohol and allow them to air dry completely to avoid cross-contamination between different resins.

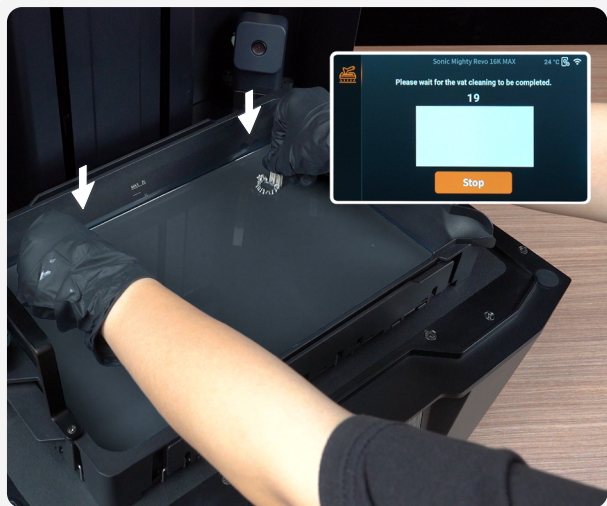
- Let the resin sit in the vat for approximately 10 minutes to allow impurities and cured particles to fully settle.
- Put on gloves, then place the used supports into the resin vat. Position them at the two corners closer to the inside of the printer, ensuring they are within the exposure area.



- On the touch panel, select "Tools"  > "Vat leaning"  > "Start"  .



- Gently press down on the supports to ensure they bond with the curing resin at the bottom.
- After curing, slowly lift up the cured layer with the used supports.

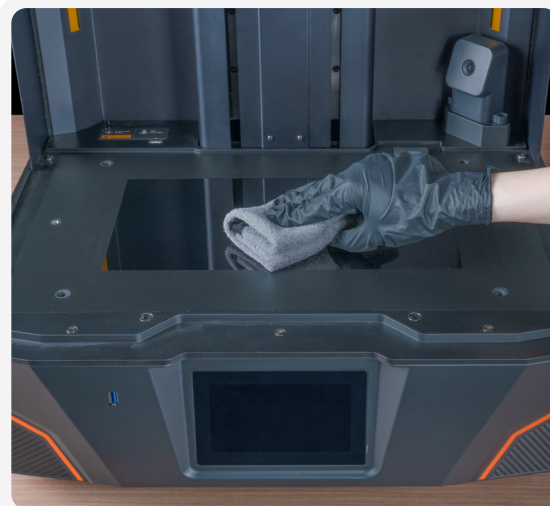


- Ensure the cured layer forms a complete square. Once confirmed, remove and place it on the stainless steel tray to complete the vat cleaning process.



2 LCD Screen Cleaning

Use the Lint-Free Wipes to wipe the screen surface, ensuring it is free of dust, fingerprints, and oily residue.



3 Z-Axis Maintenance

Clean and maintain the Z-axis regularly to improve print quality and prolong the service life of the motor and lead screw.



- Recommended maintenance: every 3 to 6 months, or when prompted by the system.
- For more details, please refer to [Z-Axis Maintenance Tutorial](#).



Z-Axis Maintenance Tutorial

4 Printer Cleaning

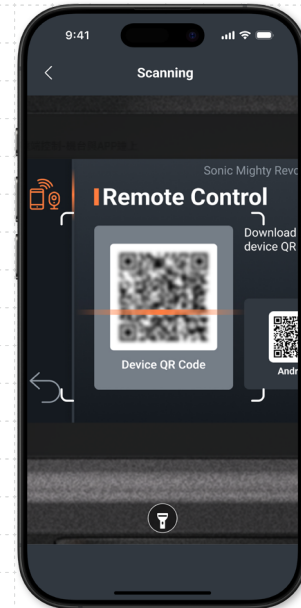
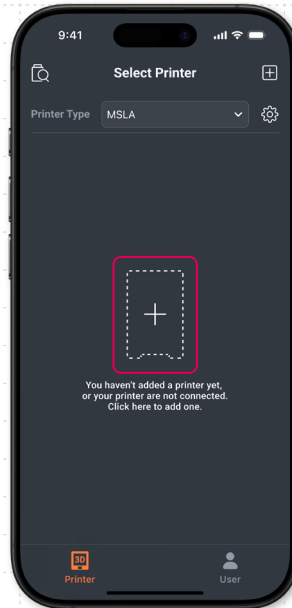
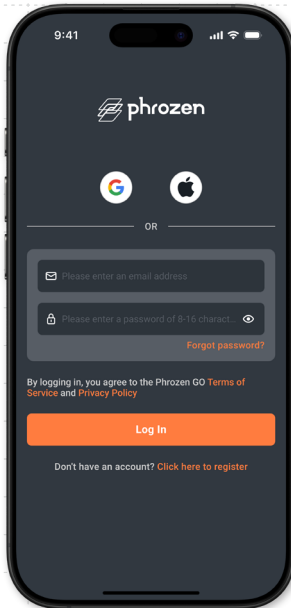
Use 95% alcohol and lint-free wipes to carefully wipe down the printer, resin vat, and build plate.



06 Remote Control App - Phrozen GO

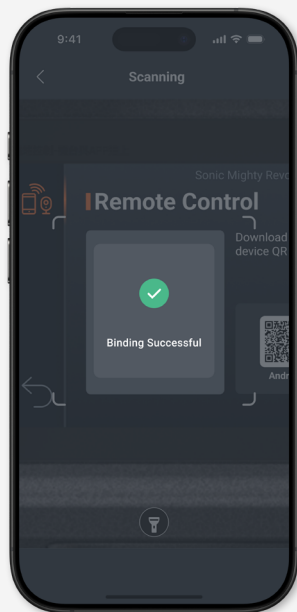
Connection Guide

- 1 Register and log in.
- 2 Tap the  to enter the pairing screen.
- 3 Go to "Settings"  > "Remote Control"  from the printer's touch panel, then use Phrozen GO to scan the QR Code.

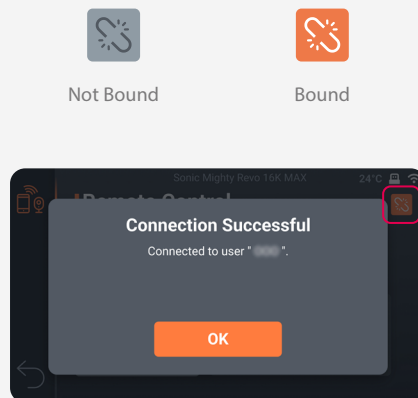


- 4 Once the printer is bound, a successful binding notification will appear on both Phrozen GO and the printer's touch panel.

A successful binding notification on Phrozen GO

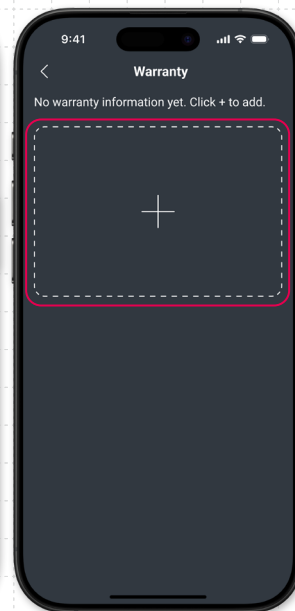
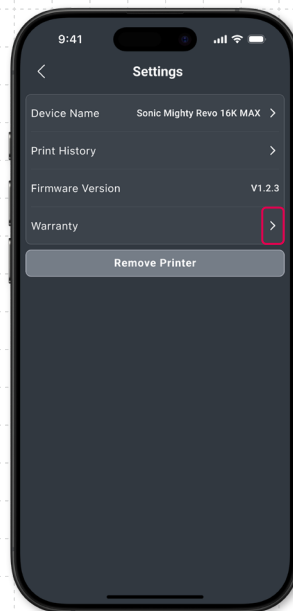
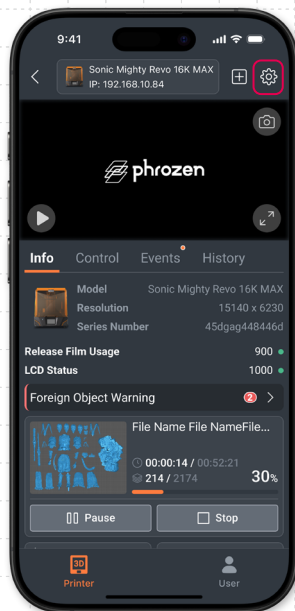
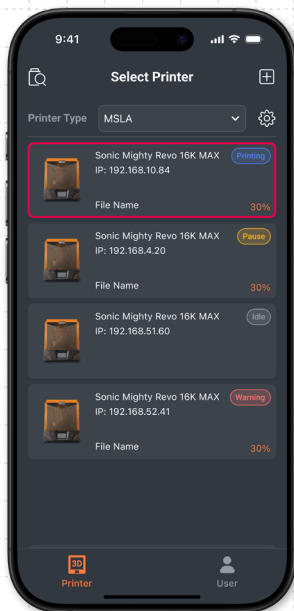


A successful binding notification on the printer's touch panel



Add Printer Warranty Information

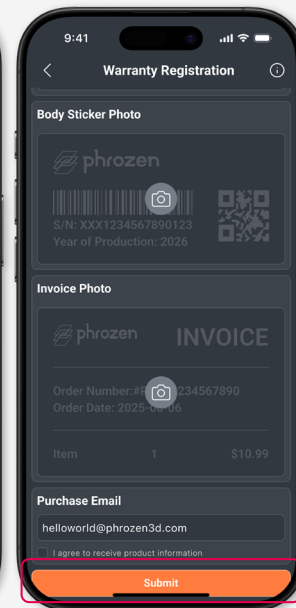
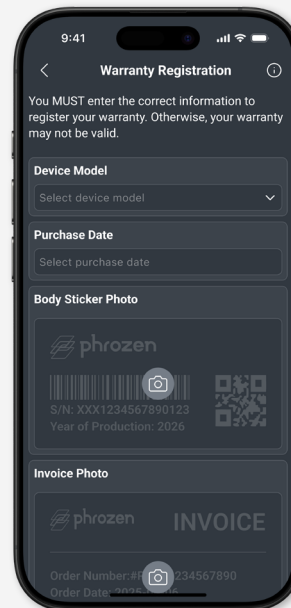
- 1 Tap to view printer information.
- 2 Tap the "Settings" ⚙️ in the top right corner.
- 3 Tap ➤, then tap ➕ to add your warranty information.



- 4 Enter the required information. Once completed, tap **Submit** at the bottom to save.



- Device Model** Sonic Mighty Revo 16K MAX
- Purchase Date** Please refer to the date on your invoice.
- Body Sticker & Invoice Photos**
- Tap the ⓘ in the top right corner to view examples.
 - Make sure the device model is clearly visible on the body sticker photo.
- Purchase Email** Please enter the email address used for your purchase, and choose whether to subscribe to product updates below.



Print Status

Users can check the current printer status in real time via the App to quickly determine whether the printer is operating normally. The system provides the following status indicators:

Printing

A print job is currently in progress

Pause

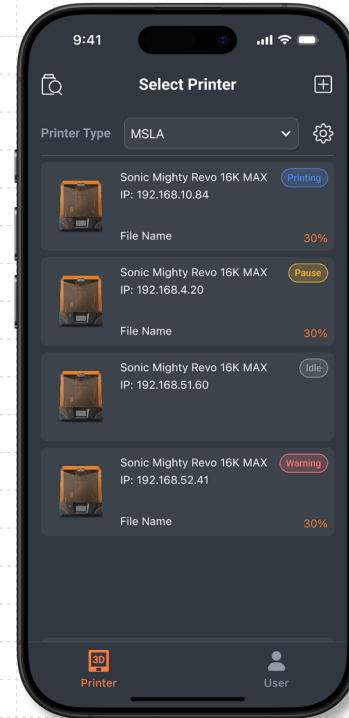
The print job is paused and awaiting user action

Idle

The printer is powered on but not printing

Warning

An issue has occurred and requires manual attention



Print Progress Tracking

During printing, users can monitor progress and related information in real time through the App. Select the corresponding printer during a print job and tap "Info" to view the following details:

Usage Statistics

The App records usage data of key components for maintenance reference:

Release Film Usage (print count)

LCD Status (usage hours)

Print Progress

00:00:14 / 00:52:21

214 / 2174

30%

Elapsed Time / Estimated Total Print Time
Printed Layers / Total Layers
Print Completion Percentage (%)

Print Parameters

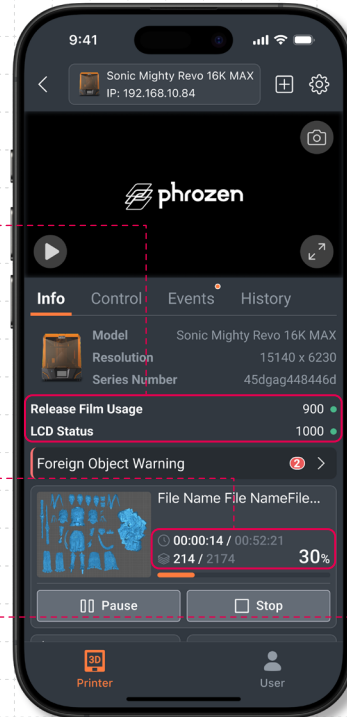
This feature allows users to monitor print status and remaining time for better task management.

⚙ Exposure Time

⚙ Layer Settings

Exposure Time

Layer Settings

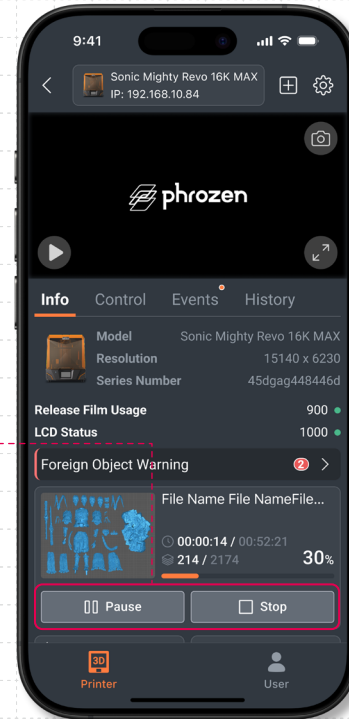


Remote Control

The Phrozen GO App provides remote control functions, allowing users to operate and monitor the printer even when away.

Remote Pause / Stop

When abnormalities or alerts occur, users can pause or stop printing remotely at any time. This helps reduce material waste and prevent printer damage.



Control Options

During printing, users can switch to the Control tab to perform printer operations:

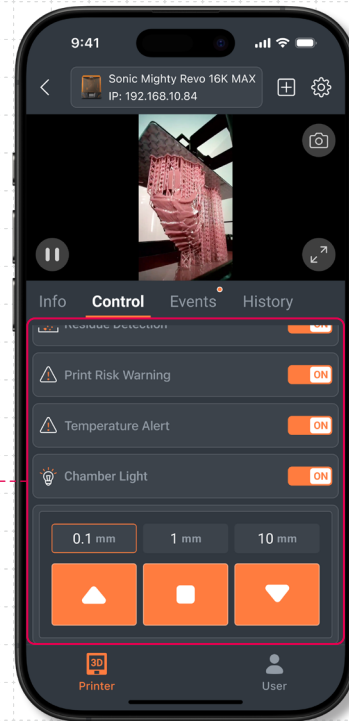
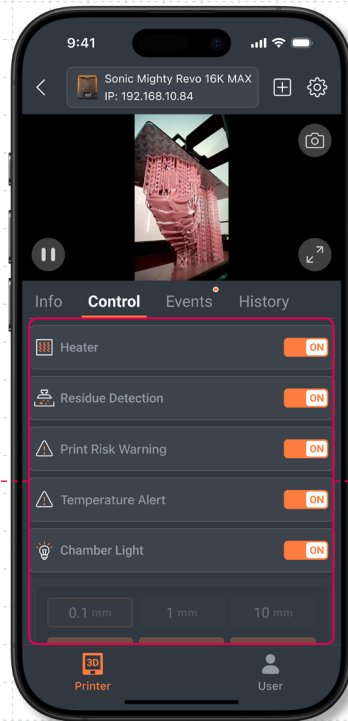
Heater System Switch

Residue Detection Switch

Print Risk Warning Switch

Temperature Alert Switch

Chamber Light Switch



- Photo capture
- Live View
- Screen Zoom In/Out

Imaging Features (Monitoring & Recording)

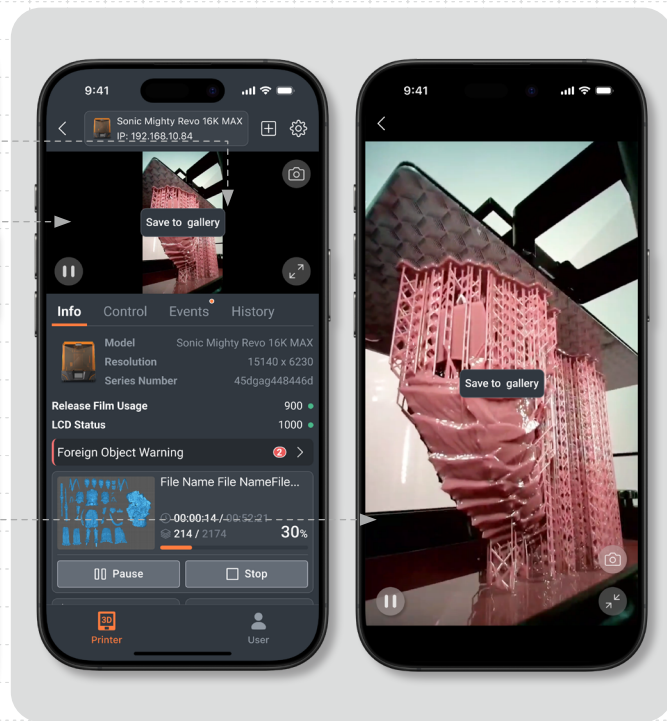
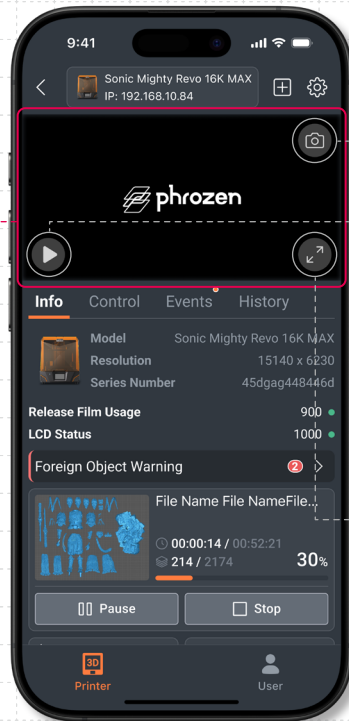
With built-in imaging functions, users can monitor the printing process in real time:

Live View (real-time streaming)

Tap the  at the bottom left to start live streaming.

Photo Capture

Tap the  at the top right of the monitoring screen to take photos.



Printer Events

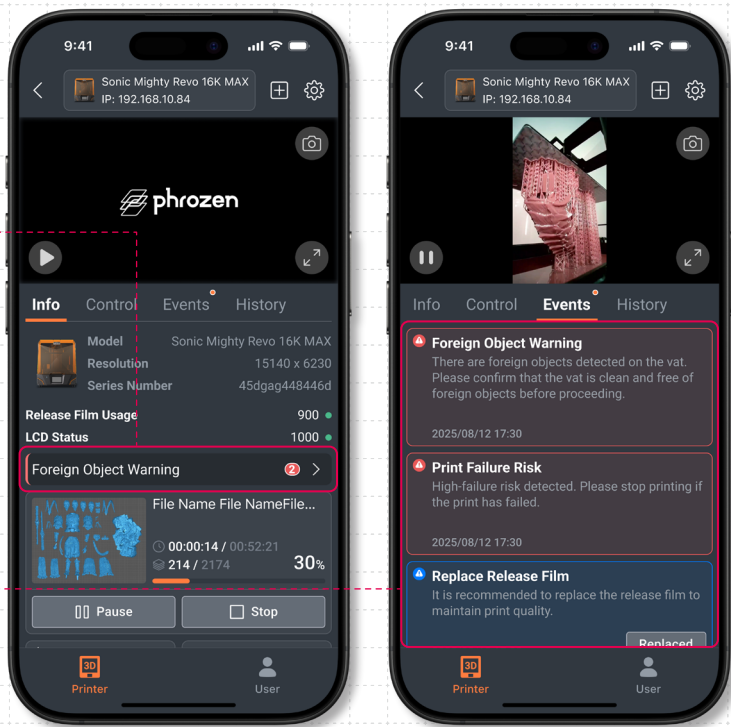
The following functions automatically monitor printer status and provide notifications, helping users detect issues early and perform maintenance:

Notifications

When abnormalities are detected, the App will send alerts:

Printer Error Notifications

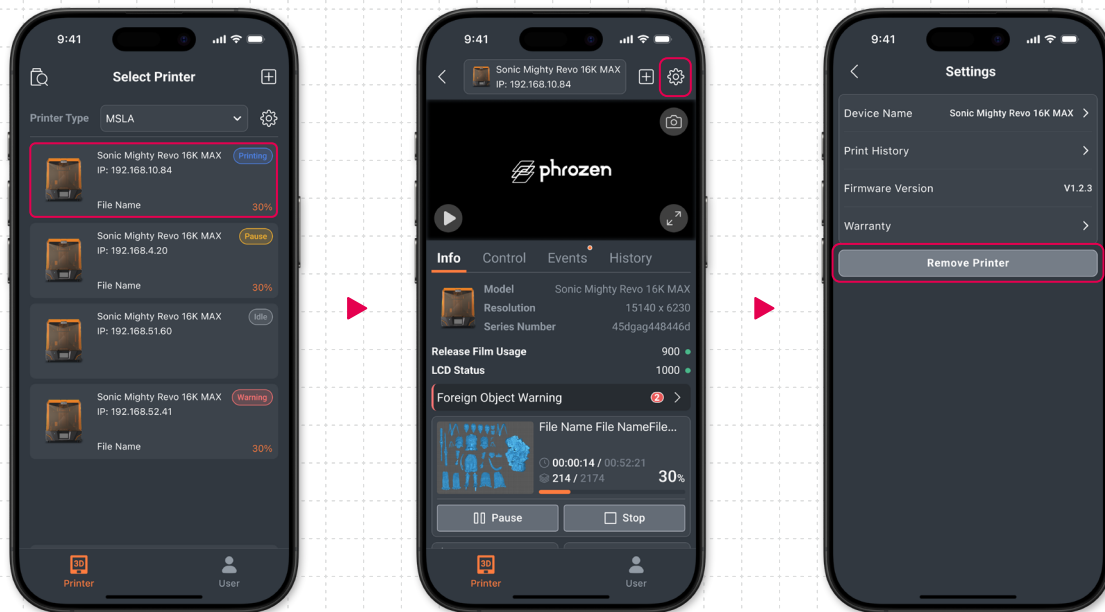
Routine Maintenance Reminders



Unbinding and Disconnecting

Follow the instructions below to unbind the 3D printer in Phrozen GO.

On the main screen, select the corresponding 3D printer > tap the "Settings" ⚙️ in the top right corner > "Remove Printer" Remove Printer.



07 Firmware Update

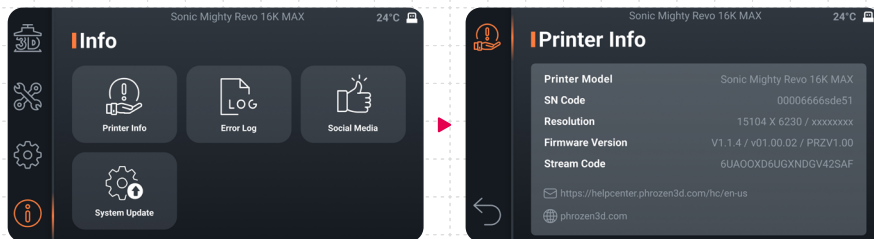


To ensure stable printing performance and print quality, it is recommend to check for and update the firmware regularly.

Update via USB

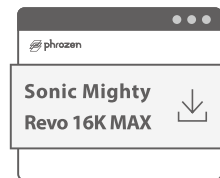
1 Checking the current firmware version

On the printer screen, tap ⓘ > "Printer Info" ⓘ to view the current firmware version.



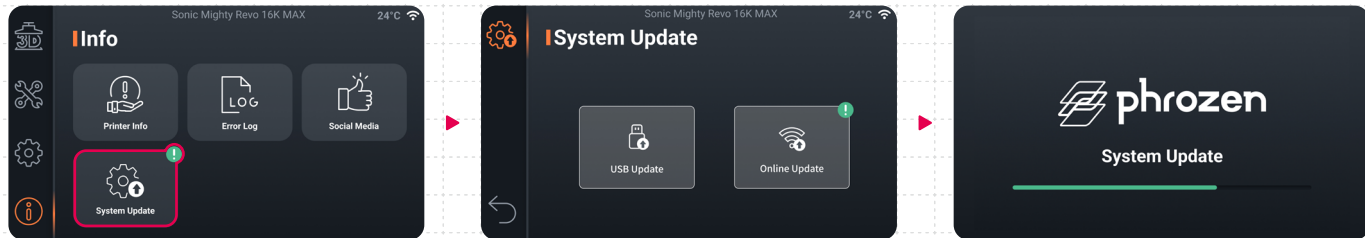
2 Latest Firmware & Update Process

Please visit the [Firmware Download](#) page to check for the latest firmware, If your device requires an update, please follow the firmware update instructions.



Update via Wi-Fi

If a new firmware version is available, an alert  will appear in the upper-right corner of "System Update"  on the "Info" page . Tap to update the firmware.



After-Sales Service & Warranty

- 12-Month Warranty (Non-human damage): Sonic Mighty Revo 16K MAX main body
- 3-Month Warranty (Non-human damage): Sonic Mighty Revo 16K MAX LCD screen
- If you have any questions while using the device, please scan the QR Code to visit the Phrozen Help Center, where you can find helpful guides or get in touch with our support team.



Phrozen
Help Center

Congratulations!

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

Please follow Phrozen's social media accounts to learn more about printing tips and share your printing experience with the community.



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