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## ANYCUBIC Mono 4

# ANYCUBIC Photon Mono 4 Resin 3D Printer User Manual

Model: Mono 4

Brand: ANYCUBIC

## 1. INTRODUCTION

The ANYCUBIC Photon Mono 4 is a high-precision resin 3D printer designed for detailed and efficient additive manufacturing. Featuring a 7-inch 10K mono LCD screen and a stable LighTurbo light source, it offers enhanced printing accuracy and speed. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Photon Mono 4 printer.



*Image: The ANYCUBIC Photon Mono 4 3D printer, showcasing its compact design and a highly detailed resin-printed figure.*

## 2. KEY FEATURES

### 2.1. 7" 10K High Resolution Mono LCD Screen

The Photon Mono 4 features a 7-inch 10K mono LCD screen with a resolution of 9024x5120 pixels. This provides exceptional detail, with each pixel measuring 17x17µm on the X and Y axes, resulting in a 105% increase in print precision compared to previous models.

# 7-inch **10K** HD Mono LCD Screen

A resolution of  
**9024x5120**

Printing precision  
increases by  
**105%**



*Image: Visual comparison illustrating the superior detail achieved with 10K resolution versus 4K resolution on a printed model.*

## **2.2. Stable LighTurbo Light Source**

Equipped with Anycubic's time-tested LighTurbo matrix light source technology, the printer delivers stable, balanced, and uniform UV light. This minimizes layer lines and rasterization, ensuring ultra-smooth surfaces and maximum print details on your models.

# No Grid Lines, No Uneven Curing

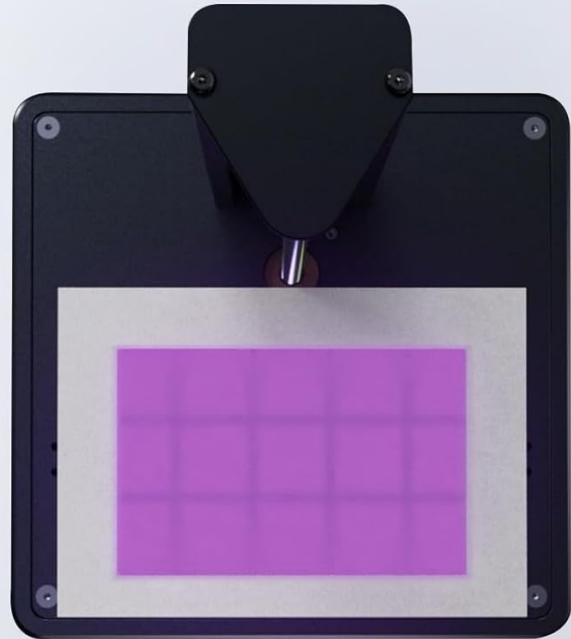
Single-layer exposure times cut down to just 1.5s  
to enhance print efficiency

No grid lines



Photon Mono 4

Grid lines



Others

*Image: A diagram demonstrating the absence of grid lines and even curing achieved by the Photon Mono 4's LighTurbo system, compared to other systems.*

## 2.3. Sufficient Print Size

The printer offers a generous maximum build volume of 6.04" x 3.42" x 6.49" (153.4mm x 87mm x 165mm), providing ample space for a wide range of printing projects, from small intricate models to larger, more demanding designs.

# Large Printing Size

Printing size of 6.04"x3.42"x6.49", it can easily cope with your daily 3d tasks and demanding projects



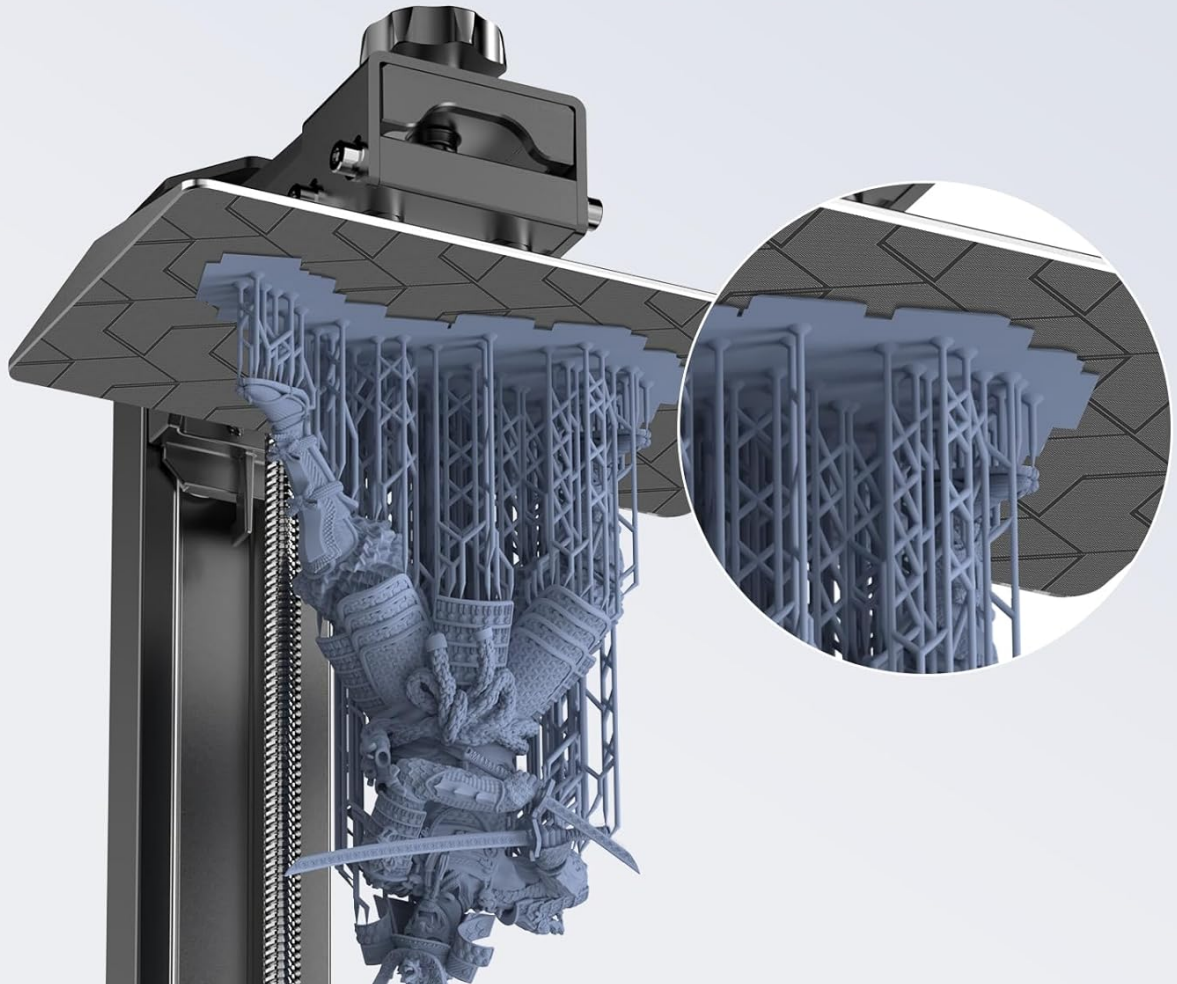
*Image: An illustration depicting the maximum print volume of the Photon Mono 4, with a model positioned to show the available space.*

## 2.4. Laser-Engraved Print Platform 2.0

The newly designed laser-engraved print platform significantly improves adhesion, reducing the likelihood of models lifting or warping during the printing process. Despite enhanced adhesion, the removal of finished prints remains simple and smooth.

# More Cohesive Laser Engraving Platform 2.0

Stronger adhesion for improved print success rates



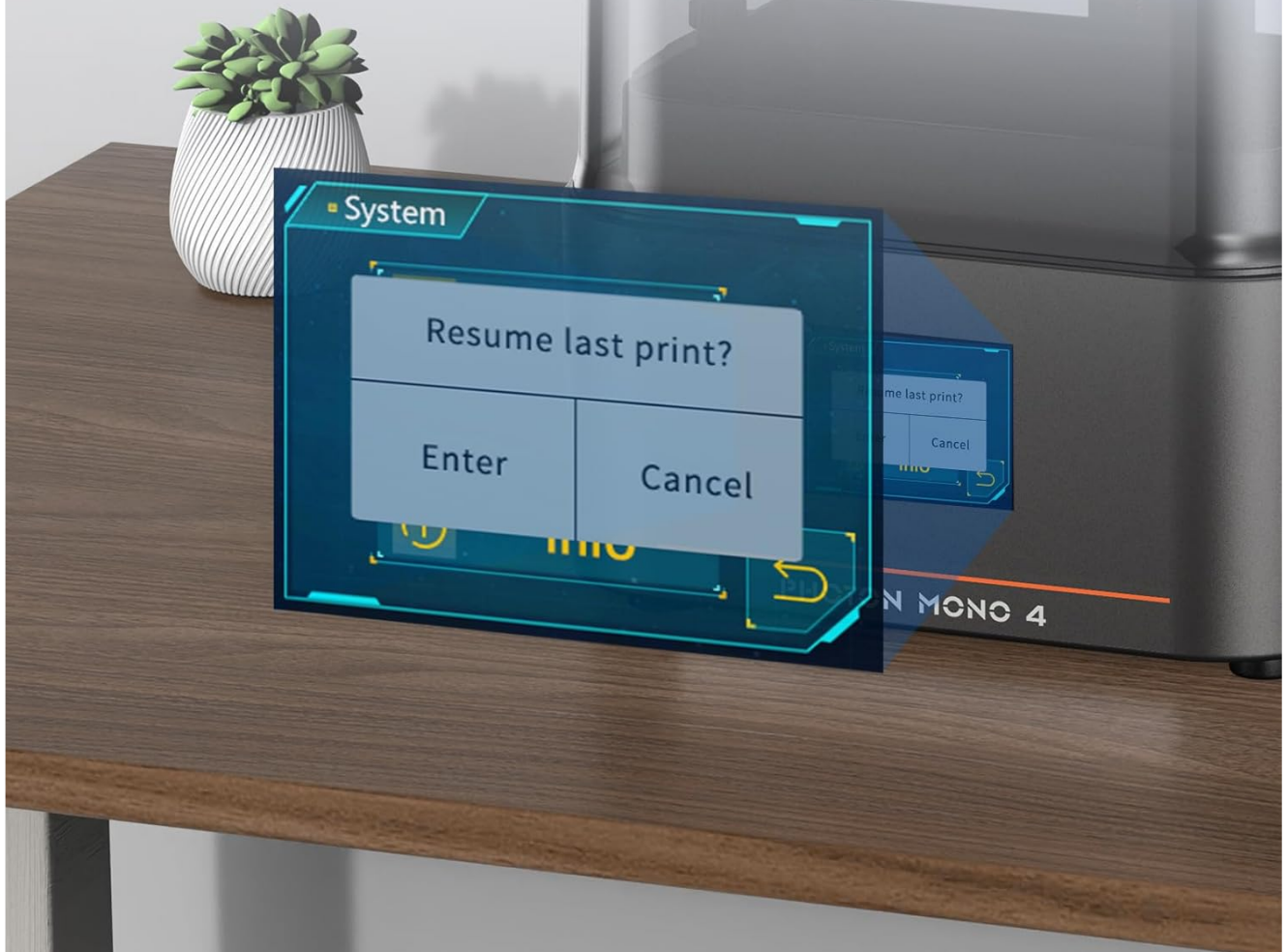
*Image: A detailed view of the laser-engraved print platform, showing its textured surface and a model adhering to it, designed for improved print success.*

## 2.5. User-Friendly Functions

The Photon Mono 4 incorporates features for ease of use, including a simplified 4-point leveling method. After the initial leveling and tightening of four screws, repeated leveling is not required. Additionally, the printer supports print resumption after power is restored, effectively minimizing material and time wastage.

# Pick Up Where You Left Off

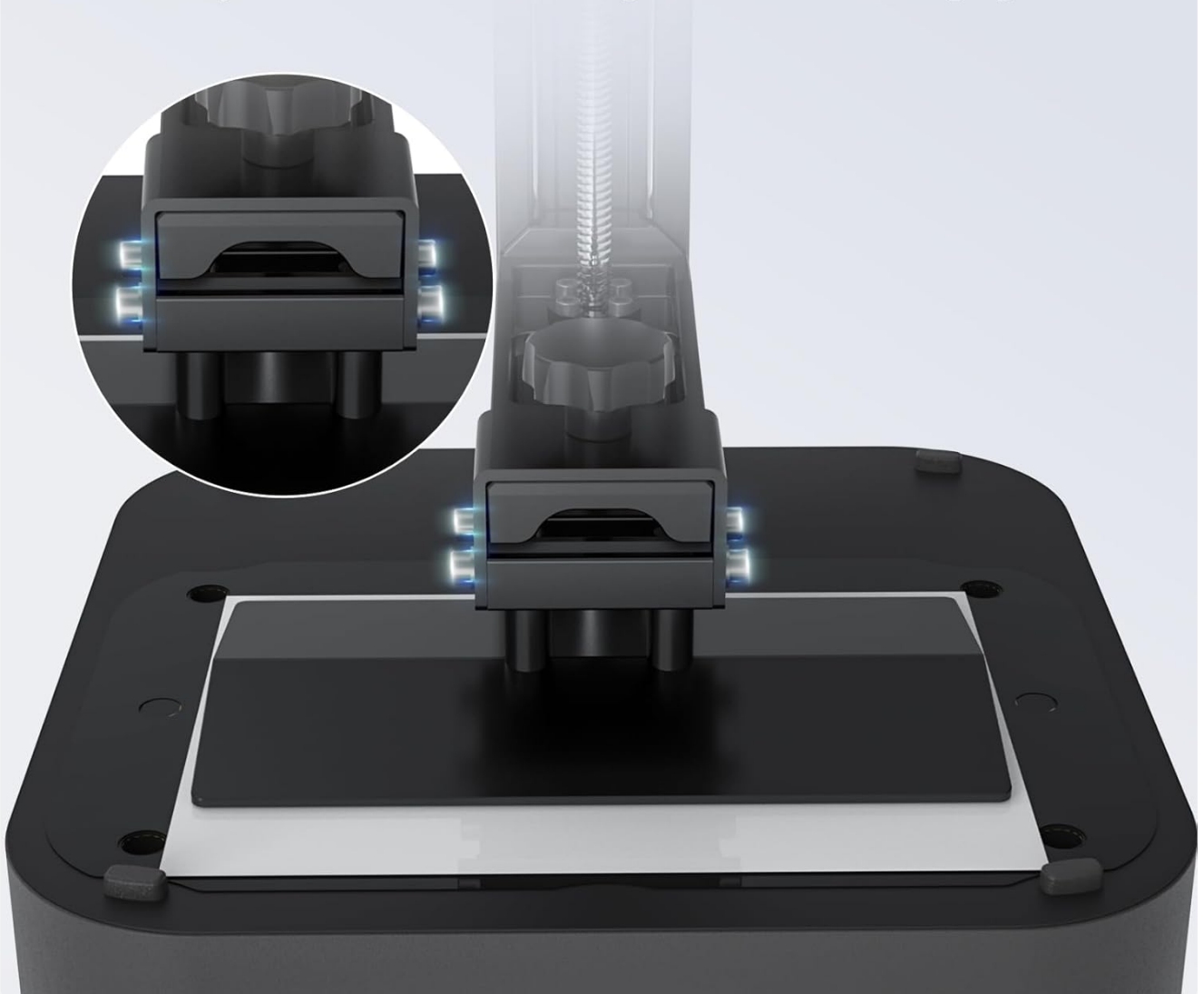
Printing can be resumed when power is restored, reducing resin waste.



*Image: The printer's display screen indicating the option to resume a print after a power interruption, a feature designed to prevent material waste.*

# 4-Point Leveling Efficiency

Ready to use after first leveling, no need to leveling again



*Image: A visual guide to the straightforward 4-point leveling system, simplifying the initial setup for users.*

## 3. SETUP GUIDE

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all items listed in the 'Package Include' section are present.
2. **Placement:** Place the printer on a stable, level surface in a well-ventilated area, away from direct sunlight and heat sources.
3. **Power Connection:** Connect the power adapter to the printer and then to a power outlet.
4. **Build Plate Installation:** Install the build plate onto the Z-axis arm and secure it firmly.
5. **Resin Vat Installation:** Place the resin vat onto the LCD screen area, ensuring it is properly seated and secured.
6. **Leveling:** Perform the 4-point leveling procedure as described in the included quick start guide or the printer's on-screen instructions. This typically involves loosening screws, lowering the build plate until it touches the leveling paper, tightening screws, and then raising the build plate.
7. **Resin Loading:** Once leveled, carefully pour the desired resin into the resin vat, ensuring it does not exceed the

maximum fill line.

## Package Include



*Image: A visual representation of all items included in the product package, such as the printer, print platform, resin vat, scrapers, hex key set, leveling paper, anti-scratch film kit, USB drive, power cord, gloves, and funnel.*

## 4. OPERATING INSTRUCTIONS

### 4.1. Preparing Your Model

Use a compatible slicing software (e.g., Anycubic Photon Workshop) to prepare your 3D model for printing. This involves:

- Importing your 3D model (STL, OBJ, etc.).
- Orienting and scaling the model as needed.
- Adding supports to overhangs and intricate details.
- Slicing the model into layers and generating a printable file (e.g., .photon, .pwmo).

## 4.2. Starting a Print

1. Save the sliced file to the provided USB drive.
2. Insert the USB drive into the printer's USB port.
3. Navigate the printer's touch screen menu to 'Print'.
4. Select your desired print file from the USB drive.
5. Confirm the print settings and start the printing process.

## 4.3. Monitoring and Completion

Monitor the initial layers of your print to ensure proper adhesion. The printer will automatically complete the print based on the sliced file. Once finished, carefully remove the build plate and detach the printed model using the provided tools.

## 4.4. Official Product Videos

For visual guidance on various aspects of the printer's operation and capabilities, please refer to the official videos below:

### Photon Mono 4 and more resin options

*Video: This video demonstrates the ANYCUBIC Photon Mono 4 printer and showcases various resin options available for different printing needs, including DIY mixing, texture, and biocompatible resins.*

### Anycubic Photon Mono 4

*Video: An overview of the Anycubic Photon Mono 4, highlighting its key features such as the 10K screen, LighTurbo light source, and user-friendly interface, demonstrating its capability to bring ideas to reality.*

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Photon Mono 4 printer.

- **Cleaning the Resin Vat:** After each print, carefully remove any cured resin bits from the vat using a plastic scraper. If changing resin types or storing the printer, empty and clean the vat with isopropyl alcohol (IPA).
- **Cleaning the Build Plate:** Clean the build plate with IPA after each print to remove any resin residue.
- **LCD Screen Care:** Always protect the LCD screen from resin spills. If resin spills on the screen, clean it immediately with a soft cloth and IPA. Never use sharp objects to scrape the screen.
- **Z-axis Maintenance:** Periodically apply a small amount of lubricant to the Z-axis lead screw to ensure smooth movement.
- **Storage:** When not in use for extended periods, clean the printer thoroughly, remove all resin, and store it in a cool, dry place away from direct sunlight.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Photon Mono 4 printer.

- **Print Not Sticking to Build Plate:**
  - Ensure the build plate is properly leveled.

- Increase the bottom exposure time in your slicing software.
- Verify the resin temperature is within the recommended range.
- Check if the build plate surface is clean and free of grease.
- **Failed Prints / Partial Prints:**
  - Check for cured resin debris in the resin vat or on the FEP film.
  - Ensure the FEP film is not damaged or too loose.
  - Verify exposure times are correct for your specific resin.
  - Check for sufficient resin in the vat.
- **Layer Lines / Poor Detail:**
  - Ensure the Z-axis is moving smoothly and is lubricated.
  - Reduce the lifting speed in your slicing software.
  - Check for stable ambient temperature.
  - Verify the resin is well-mixed.
- **Printer Not Turning On:**
  - Check the power cable connection to both the printer and the power outlet.
  - Ensure the power switch is in the 'ON' position.
- **Screen Not Responding:**
  - Restart the printer.
  - Ensure the screen is clean and free of debris.

For more complex issues, refer to the official ANYCUBIC support resources or contact customer service.

## 7. SPECIFICATIONS

Feature	Detail
Brand	ANYCUBIC
Model Number	Mono 4
Product Dimensions	10 x 10 x 15 inches (10"D x 10"W x 15"H)
Item Weight	7.7 pounds (3.5 Kilograms)
Material	ABS, Aluminum, Polycarbonate
LCD Screen	7" 10K Mono LCD Screen (9024x5120 resolution)
Light Source	LighTurbo Matrix Light Source
Max Print Speed	Up to 70mm/h
Build Volume	6.04" x 3.42" x 6.49" (153.4mm x 87mm x 165mm)
Print Platform	Laser-engraved Print Platform 2.0
Leveling Method	4-point manual leveling
Compatible Devices	Laptop, Personal Computer
Country of Origin	China
Date First Available	July 26, 2024

## 8. WARRANTY AND SUPPORT

The ANYCUBIC Photon Mono 4 is manufactured by ANYCUBIC. For specific warranty details, please refer to the warranty card included with your product or visit the official ANYCUBIC website. Typically, manufacturers offer a limited warranty covering defects in materials and workmanship.

For technical support, troubleshooting assistance, or inquiries regarding replacement parts, please contact ANYCUBIC customer service directly. You may also find helpful resources, FAQs, and community forums on their official website.

Extended protection plans may be available for purchase from your retailer, offering additional coverage beyond the standard manufacturer's warranty. Please check with your point of purchase for details on available protection plans.