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› Antinsky HeatMixer-HM100 3D Printer Resin Mixer and Heater User Manual

## Antinsky HeatMixer-HM100

# Antinsky HeatMixer-HM100 3D Printer Resin Mixer and Heater User Manual

Model: HeatMixer-HM100

## 1. INTRODUCTION

The Antinsky HeatMixer-HM100 is designed to optimize 3D printer resin for improved print quality and success rates. This device combines efficient mixing with controlled heating to ensure resin consistency and fluidity. This manual provides essential information for the safe and effective use of your HeatMixer-HM100.



Figure 1: Antinsky HeatMixer-HM100, showing the closed unit and an open unit with a resin bottle.

## 2. PRODUCT OVERVIEW AND FEATURES

The HeatMixer-HM100 integrates several key functions to enhance resin 3D printing:

- **Improved Printing Success Rate:** Ensures uniform resin composition and optimal fluidity, which contributes to higher print quality and fewer failures.
- **Multi-function Scroll Mode:** Features bi-directional rolling with alternating clockwise and counter-clockwise rotations. Offers both high-speed and low-speed mixing modes to accommodate various resin types.
- **Multiple Heating Modes:** Provides options for no heating, 40°C, and 50°C. The upper and lower surrounding heating design ensures even temperature distribution throughout the resin.
- **Wide Compatibility:** Designed for LCD/DLP/SLA UV-curing photopolymer resins in 250g, 500g, and 1kg bottles from various brands.

# Efficient mixing

High speed, low speed,  
forward and reverse two-way shaking  
Automatic steering

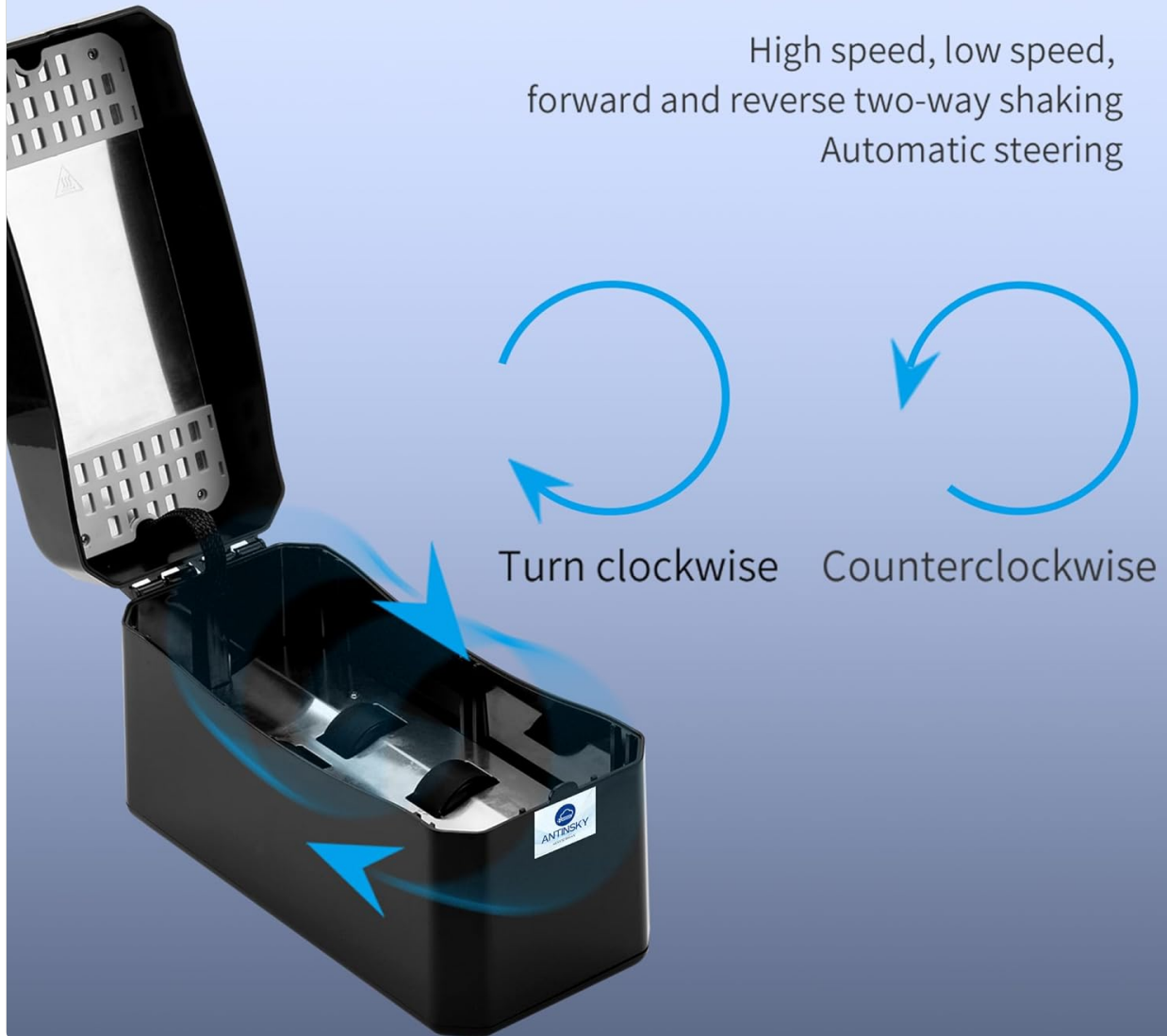


Figure 2: Illustration of the HeatMixer-HM100's efficient bi-directional mixing process.

# Active heating

No heating, 40°C, 50°C three modes available

Upper and lower surround heating design, efficient heating

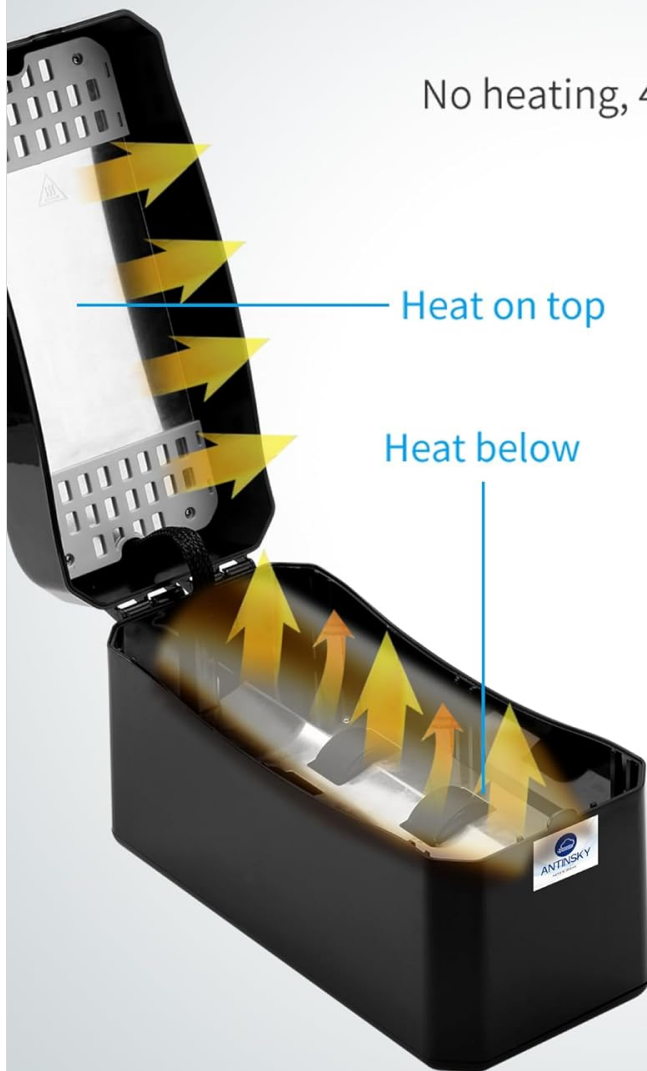


Figure 3: Diagram detailing the active heating mechanism, with heat applied from both top and bottom.

## 3. SETUP

1. **Unpacking:** Carefully remove the HeatMixer-HM100 from its packaging. Inspect for any signs of damage.
2. **Placement:** Place the device on a stable, level surface away from direct sunlight, heat sources, and flammable materials. Ensure adequate ventilation.
3. **Power Connection:** Connect the provided power adapter to the device and then plug it into a suitable power outlet (AC100V-240V, 50/60 Hz).
4. **Resin Bottle Preparation:** Ensure your resin bottle is securely capped before placing it into the HeatMixer-HM100. The device is compatible with 250g, 500g, and 1kg resin bottles.

## 4. OPERATING INSTRUCTIONS

The HeatMixer-HM100 features simple touch controls for operation.

# HeatMixer

## Easy to use

Simple function, touch operation,  
and display of running lights



Figure 4: The intuitive touch control panel of the HeatMixer-HM100.

1. **Power On:** After connecting the power, the device will enter standby mode.
2. **Place Resin Bottle:** Open the lid and carefully place the resin bottle horizontally into the designated slot. Close the lid securely.
3. **Select Mixing Mode:**
  - Press the mixing button once for high-speed bi-directional mixing.
  - Press the mixing button a second time for low-speed bi-directional mixing.
  - Press the mixing button a third time to stop mixing.
4. **Select Heating Mode:**
  - Press the heating button once for 40°C heating.
  - Press the heating button a second time for 50°C heating.
  - Press the heating button a third time to turn off heating (no heating mode).
5. **Start Operation:** Once mixing and heating modes are selected, the device will begin operation. Indicator lights will show the active functions.
6. **Completion:** The device will automatically stop after a preset duration or when manually stopped.

Remove the resin bottle carefully.

### Why Heat Resin Before Printing?

Photosensitive resin is a colloidal substance where denser particles can settle over time. Uneven resin can lead to printing failures or poor quality. Heating significantly reduces resin viscosity, improving fluidity and ensuring a more uniform mixture. This is particularly important for resins stored at low temperatures, which may have high viscosity and low activity. Pre-heating can improve print success rates and is recommended for use with 3D printers that also feature a heated build chamber to maintain temperature stability during printing. Some resins, especially casting resins, may precipitate components when stored in cold environments and require heating to fully dissolve.

# Why do you need to shake the resin well?

Photosensitive resin is a colloidal substance composed of polymers. The denser particles inside are easy to settle. Uneven resin can easily lead to printing failure or poor quality. Shaking the resin evenly can improve the success rate of printing and ensure the quality of printed products. Uniform and stable.

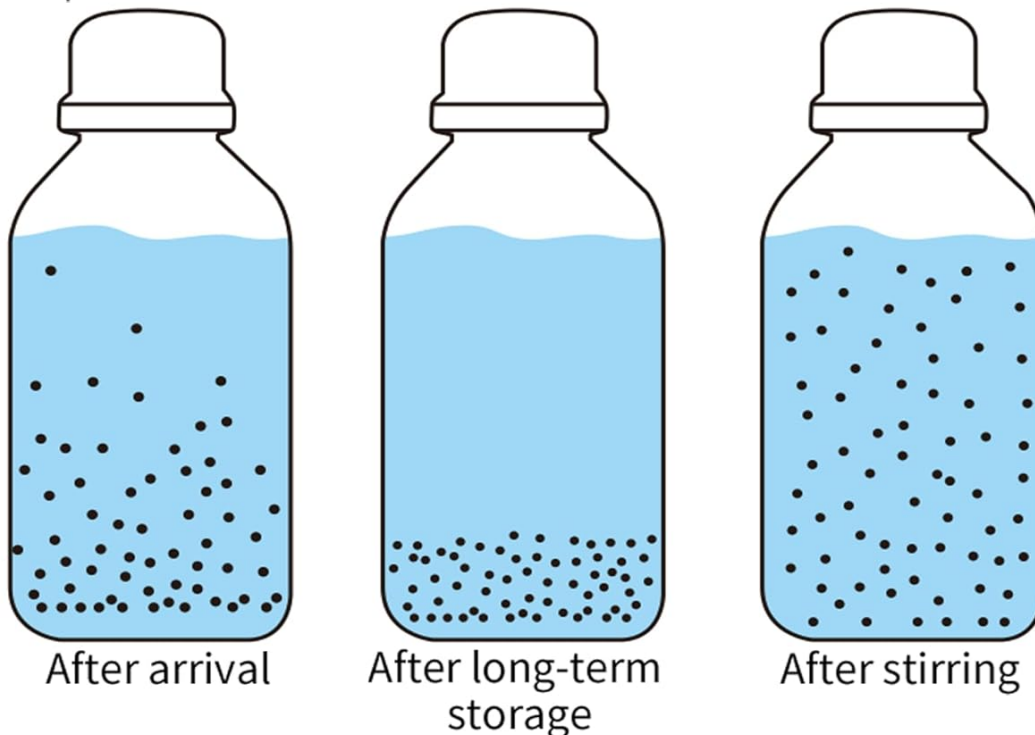


Figure 5: Visual explanation of resin particle settling and the effect of stirring.



Figure 6: Example of improved print quality after using the HeatMixer-HM100.

## 5. MAINTENANCE

- **Cleaning:** Regularly wipe the exterior of the device with a soft, dry cloth. If resin spills occur, clean immediately with isopropyl alcohol (IPA) and a soft cloth. Ensure the device is unplugged before cleaning.
- **Storage:** When not in use, store the HeatMixer-HM100 in a cool, dry place, away from direct sunlight and dust.
- **Inspection:** Periodically check the power cord and plug for any damage. Do not use the device if any damage is observed.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Power cord not connected; power outlet malfunction.	Ensure power cord is securely connected. Test the outlet with another device.
Resin is not mixing.	Mixing mode not selected; resin bottle improperly placed.	Verify mixing mode is active. Ensure the resin bottle is correctly seated in the slot.
Resin is not heating.	Heating mode not selected; ambient temperature too low.	Verify heating mode is active (40°C or 50°C). Allow sufficient time for heating. Ensure the lid is closed.
Unusual noise during operation.	Resin bottle not seated correctly; internal obstruction.	Stop the device, check resin bottle placement. If noise persists, discontinue use and contact support.

## 7. SPECIFICATIONS

<b>Product Name</b>	Heated Resin Mixer (HeatMixer)
<b>Model</b>	HM100
<b>Rotate Speed</b>	35/50 rpm
<b>Input Power</b>	AC100V-240V, 50/60 Hz
<b>Output Power</b>	DC 24±1.2 V, 2 A
<b>Max Working Electricity</b>	1.8 A

<b>Max Working Power</b>	48 W
<b>Product Net Weight</b>	1300 g (2.87 lbs)
<b>Product Gross Weight</b>	1530 g (3.37 lbs)
<b>Maximum Load Bearing</b>	1 kg (2.2 lbs)
<b>Applicable Resin Bottle Sizes</b>	250g, 500g, 1000g
<b>Product Size (L x W x H)</b>	270 x 125 x 180 mm (10.63 x 4.92 x 7.09 inches)
<b>Packing Size (L x W x H)</b>	285 x 155 x 220 mm (11.22 x 6.10 x 8.66 inches)
<b>Product Certifications</b>	FCC/CE/RoHS

## 8. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official Antinsky website or contact your retailer. Keep your purchase receipt for warranty claims.

For further assistance, please visit: [Antinsky Official Store](#)