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› Creality 3D UW-01 Washing and Curing Machine User Manual

Creality UW-01

Creality 3D UW-01 Washing and Curing Machine

USER MANUAL

Introduction

Thank you for purchasing the Creality 3D UW-01 Washing and Curing Machine. This 2-in-1 device is designed to streamline the post-processing of LCD/DLP/SLA resin 3D printed models, offering efficient washing and UV curing capabilities. This manual provides essential information for safe operation, setup, usage, maintenance, and troubleshooting to ensure optimal performance and longevity of your machine.



Figure 1: Creality UW-01 Washing and Curing Machine with transparent orange cover.

Safety Instructions

- Always wear appropriate personal protective equipment (PPE), including gloves and eye protection, when handling resin or cleaning solutions.
- Ensure the machine is placed on a stable, level surface away from direct sunlight and heat sources.
- Do not operate the machine with a damaged power cord or plug.
- Keep the machine away from children and pets.
- Use only recommended cleaning solutions (e.g., isopropyl alcohol) and follow their safety guidelines.
- Never look directly at the UV lights during operation. The protective cover must be in place during curing to prevent UV exposure. The machine features an automatic pause function if the cover is removed during curing.
- Dispose of used resin and cleaning solutions according to local environmental regulations.

Product Overview

The Creality UW-01 integrates washing and curing functionalities into a single compact unit, designed for user convenience and efficiency.

Key Features:

- **Dual-Row UV Light System:** Equipped with 18 UV LED lights in double rows for powerful and even curing.
- **360° Rotating Platform:** Features a magnetic and reflective rotating tray for comprehensive exposure during curing.
- **Intuitive LED Touch Control:** HD touch-sensitive panel with a large LED display for easy operation and safety features.
- **Integrated Wash and Cure System:** Seamless transition between washing and curing modes for models up to $\phi 165 \times 200 \text{mm}$.
- **Spacious Washing Container:** A $190 \times 154 \times 200 \text{mm}$ sealed container minimizes evaporation and allows for cleaning fluid reuse.
- **Versatile Features with Adjustable Bracket:** Multiple washing modes and an adjustable bracket accommodate various platform and model sizes.



LARGE SIZE SEALED WASHING CONTAINER

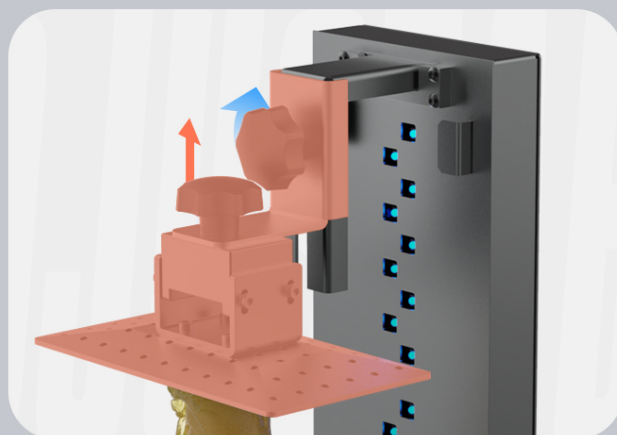


DOUBLE-ROW AND DOUBLE-BAND UV LAMP BEADS

Figure 2: Overview of the Crealty UW-01's multiple functions and design.



ADJUSTABLE THREE-GEAR SPEED AND 2~90MIN OPTIONAL



SELF-ADJUSTABLE BARCKET

Figure 3: Close-up of the LED HD touch control panel and a model being washed.

Specifications

Feature	Specification
Model	UW-01
Machine Type	Curing and Washing
Control Method	Touch button, LED indicator
Rated Power	96W
Input Voltage	24V
Curing and Washing Time	2-90 minutes
Washing Size (L×W×H)	170mm × 120mm × 160mm

Feature	Specification
Air-drying and Curing Size	φ165mm × 200mm
Machine Size	225mm × 225mm × 370mm
Machine Weight	6.5 KG

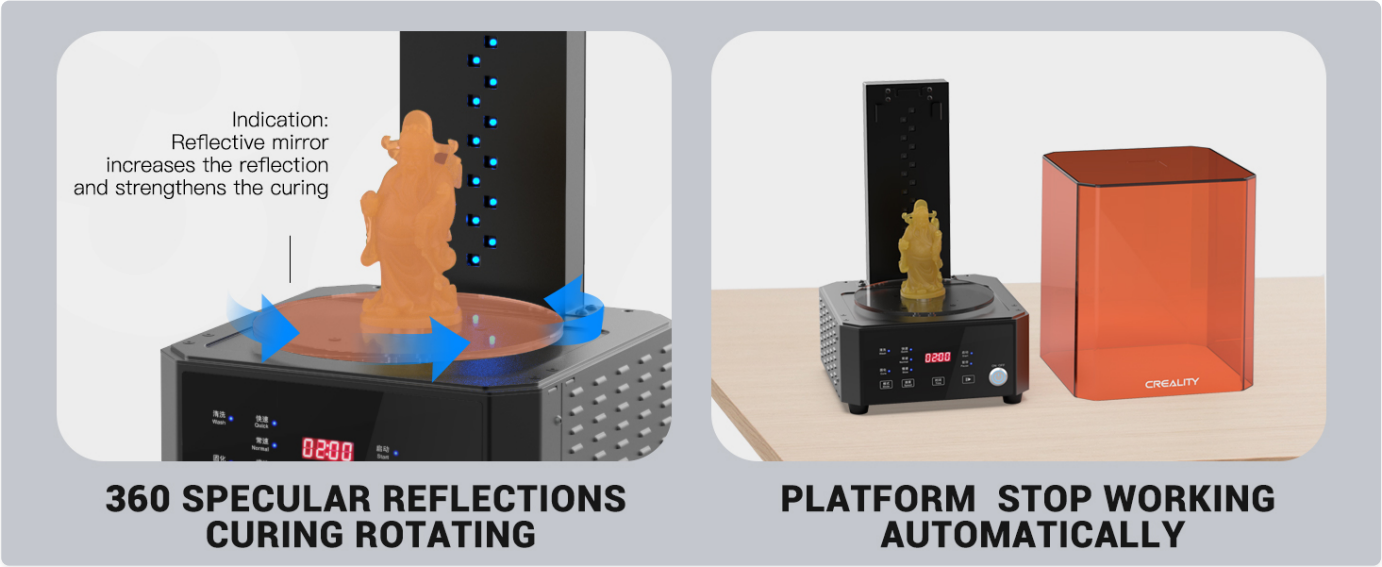


Figure 4: Detailed product parameters for the UW-01 machine.

Setup

Before first use, ensure all packaging materials are removed and the machine is placed on a stable, flat surface. Connect the power adapter to the machine and a suitable power outlet.

Initial Assembly:

1. Place the main unit on a stable surface.
2. Insert the washing container into the main unit. Ensure it is seated correctly.
3. For curing, place the rotating platform onto the designated area on the main unit.
4. Always ensure the transparent orange protective cover is properly placed on the unit before starting any operation.



Figure 5: The Creality UW-01 machine with the build plate and washing basket.

Your browser does not support the video tag.

Video 1: This video demonstrates the setup and basic usage of the Creality UW-01 Washing and Curing Machine, including how to prepare it for washing and curing operations.

Operating Modes

1. Washing Mode

The washing mode uses a powerful electromagnetic propeller to stir the cleaning solution, effectively removing uncured resin from your 3D printed models.

1. Ensure the washing container is filled with an appropriate cleaning solution (e.g., 70% or 99% Isopropyl Alcohol) up to the indicated fill line.
2. You can wash models in two ways:
 - **Using the Washing Basket:** Place your printed models directly into the metal washing basket and lower it into the container.
 - **Platform Suspension Washing:** Attach your build plate with the printed model directly to the adjustable bracket. This method reduces contact with the resin and allows for washing without removing the model from the build plate. Adjust the bracket height to ensure the model is fully submerged.
3. Select 'Wash' mode on the touch panel.

- Set the desired washing time (2-90 minutes) and speed (Fast, Normal, Slow).
- Place the protective cover over the unit and press 'Start'. The machine will automatically reverse direction periodically for thorough cleaning.

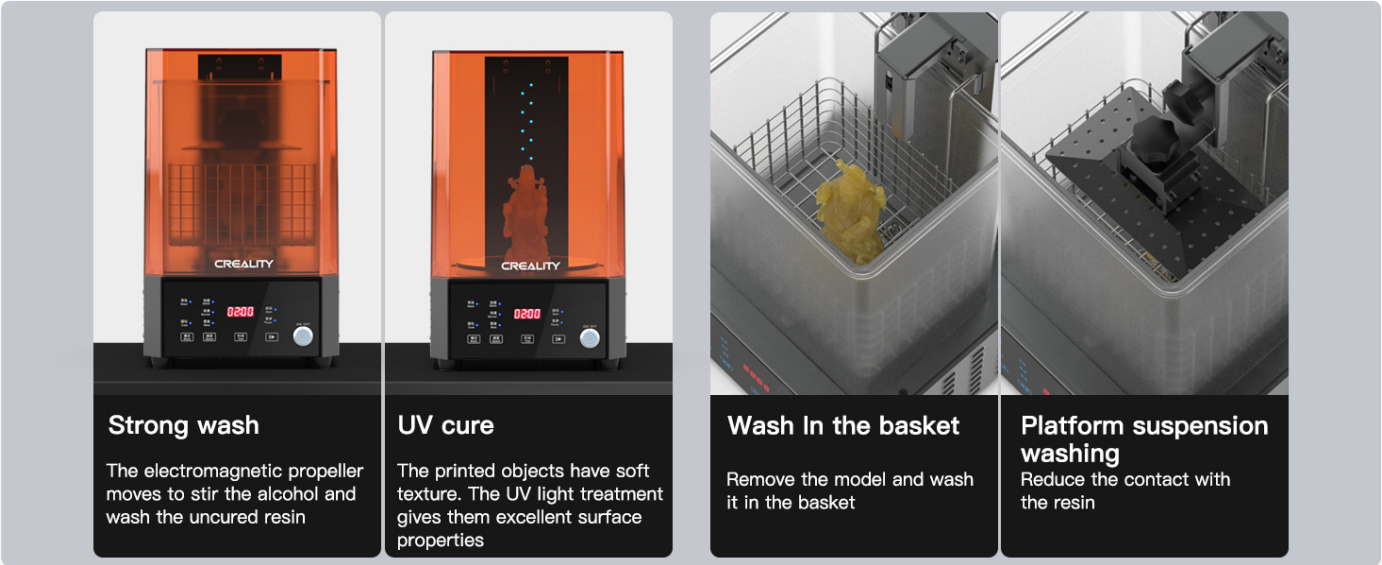


Figure 6: Illustration of strong wash, UV cure, wash in basket, and platform suspension washing methods.

Product Parameters			
Model	: UW – 01	Wahing size	: 170(L)*120(W)*160mm(H)
Machine	: Curing and washing	Air–drying and curing size	: 165*200mm
Control method	: Touch button, LED indicator	Machine size	: 225*225*370mm
Rated power	: 96W	Package size	: 298*297*505mm
Input voltage	: 24V	Machine weight	: 6.5KG
Curing and washing time	: 2–90min		

Figure 7: Details on adjustable three-gear speed settings and the self-adjustable bracket for washing.

2. Curing Mode

After washing, models require UV curing to achieve their final hardness and strength. The UW-01 uses dual-band UV light and a rotating platform for uniform curing.

- Remove the washing container and place the rotating platform onto the main unit.
- Carefully place your washed and dried 3D printed model(s) onto the center of the rotating platform. The platform's magnetic and reflective mirrors enhance curing efficiency.
- Select 'Cure' mode on the touch panel.
- Set the desired curing time (2-90 minutes) and speed (Fast, Normal, Slow). For most models, 5-10 minutes is sufficient, but larger or thicker models may require more time.
- Place the transparent orange protective cover over the unit. The machine will not start curing without the cover properly in place.

6. Press 'Start'. The UV lights will activate, and the platform will begin rotating.



Figure 8: The Creality UW-01 machine operating in curing mode with UV lights active.



Figure 9: Illustration of the 360-degree specular reflections for enhanced curing and the double-row UV lamp beads.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your UW-01 machine.

Cleaning:

- After each use, especially after washing, ensure the washing container and propeller are clean.
- If the cleaning solution becomes cloudy or ineffective, replace it. Used resin-contaminated alcohol can be left in sunlight to cure the resin, then filtered and reused or disposed of properly.
- Wipe down the exterior of the machine and the protective cover with a soft, dry cloth. Avoid abrasive cleaners.

Component Replacement:

Periodically, certain components may need replacement due to wear or malfunction. Refer to the following video for guidance on replacing the Hall Switch, a common maintenance task.

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Video 2: This video provides a step-by-step guide on how to replace the Hall Switch component of the Creality UW-01, which is essential for proper operation.

Troubleshooting

Problem	Possible Cause	Solution
Machine does not power on	Power cable loose; Power outlet issue	Check power connections; Try a different outlet
Washing/Curing does not start	Protective cover not properly placed; Incorrect mode selected	Ensure cover is fully seated; Verify mode selection (Wash/Cure)
Models are still sticky after washing	Insufficient washing time; Cleaning solution is diluted/dirty	Increase washing time; Replace cleaning solution
Models are still soft after curing	Insufficient curing time; Model not fully dry before curing	Increase curing time; Ensure models are completely dry before curing
Rotating platform not spinning	Platform not correctly placed; Motor issue	Re-seat the rotating platform; Contact customer support if issue persists

Warranty and Support

Creality provides a standard warranty for the UW-01 Washing and Curing Machine. For detailed warranty terms, technical support, or service inquiries, please refer to the official Creality website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

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Video 3: A short preview video highlighting the benefits of the Creality UW-01 Wash and Cure Machine.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question