

WRAP Prime

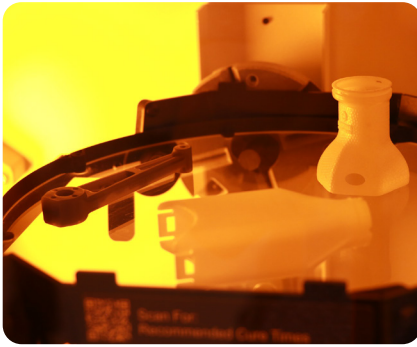
Certified & Automatic P3/DLP Post Curing
with Unused Resin Printing Capabilities



Solving Industry Gaps

When using P3/DLP technology, parts are only partially cured as printed. The printed parts require a secondary UV exposure to fully cure and adhere to the material manufacturer's specifications. Onulis has identified the following critical gaps in the UV post-curing systems currently available.

Industry Gap	Description	Onulis' Solution
Unwanted Heat Generation	Some solutions use broad spectrum bulbs, which provide unwanted, uncontrolled heat that can warp parts. Manual part rotations are required to avoid warpage.	Onulis' system uses high-powered, focused UV lights, fully curing parts per manufacturer's specifications without emitting infrared rays that give off uncontrolled heat.
Incomplete UV Part Exposure	No current market offerings provide UV exposure to the bottom of parts, so manual rotation is required.	Onulis' unique system architecture simultaneously exposes all sides of a part to UV light.
Manual Intervention Required	All current solutions require users to manually rotate a part to cure all sides, and avoid warpage.	Onulis provides fully automatic operation.
Lack of Certification, Auditing, & Corrective Action	Today's offerings do not support ISO 9000 Certified users by providing per unit documentation with each system to define wavelength, irradiance values, and consistency across the curing platform. There are no means to audit the system's performance over time or a solution for corrective action.	<p>Onulis provides three key elements to ensure lifetime compliance with material manufacturer's specifications:</p> <ol style="list-style-type: none"> <u>Certification</u> Each WRAP Prime is measured, calibrated, and documented with individual specifications provided with each unit shipped. <u>Auditing</u> A Self Audit Kit is available for users to complete in-house audits of their system's performance. Measurement instrumentation, documentation, and a custom fixture included. This is particularly essential for companies that are ISO 9000 Certified. <u>Corrective Action</u> A UV Recharge Pack is available to easily replace a system's lights and drivers in, the event a system falls out of specification.
Incomplete Workflow	Today's offerings do not offer a comprehensive solution for the P3/DLP workflow.	<p>Onulis provides a bundle solution for the complete P3/DLP post-processing workflow:</p> <ul style="list-style-type: none"> Cleanpoint - Fully Automatic Wash Station WRAP Prime - Fully Automatic UV Part Curing Crosslink - Accurate Thermal Curing Oven



WRAP Prime

P3/DLP CURE MODE

In Cure Mode, the WRAP Prime post-cures P3/DLP parts at production speeds. Using high-powered UV lamps and a transparent, multi-level, rotating curing table, WRAP Prime offers automatic and complete part curing.

The system is validated by the major P3/DLP material manufacturers. To continuously ensure that the material manufacturer's specifications will be met, each WRAP Prime unit goes through a multi-step calibration, inspection, and documentation process.

Recommended cure times are easily accessed via a QR code on the system's cure table.

RESIN PRINT MODE

In Print Mode, the Onulis WRAP Prime automatically converts unused UV resin into fully cured plastic stock for a variety of uses and is safe for disposal as standard household waste.¹

Using our patented WRAP® (Waste Resin Axial Printing) technology, the system is the first technology-driven solution for handling unused UV resin, allowing users to avoid time-consuming homespun curing solutions and expensive hazardous waste outsourcing that can draw unwanted oversight from the EPA.

FEATURES

P3/DLP CURE MODE

- Curing process validated by major material manufacturers.
- Fully automatic, hands-free operation.
- Microprocessor controlled temperature and duration avoids part warpage.
- High irradiance LED light arrays.
- Converts from Cure to Print in < 60 seconds.
- Adjustable timing functions. Easy access to recommended cure times.
- Traceable curing.

RESIN PRINT MODE

- Automatic timing function and integrated safety features enable unattended operation.
- WRAP Prime's axial printing architecture minimizes overall size and cost.
- Through leveraging used or expired resin, operation costs are virtually zero.
- Patent pending drip comb produces individual droplets for efficient curing.
- Simple gravity-driven drip system avoids use of pumps, valves, and hoses, which are susceptible to clogs.
- Onboard carbon filtration system controls fumes. Exhaust Adapter Kit is available.

SPECIFICATIONS

Cure Mode Specifications

Maximum Part Size	Automatic Rotation: 9.5 x 4 x 9 in. Manual Rotation: 9.5 x 11.5 x 5 in. ³
Cure Time	15+ minutes; material dependent. Process validated by major material manufacturers. All recommended cure times available on the Onulis website: https://onulis.com/p3-dlp-workflow-guide
Irradiance Values	± 5 mW/cm ² from 78 mW/cm ²

Print Mode Specifications

Resin Printing Compatibility ²	PolyJet, Stereolithography, & P3/DLP
Vat Capacity	7.5L
Resin Throughput	Cures 30 days' worth of unused resin in 6 hrs.
Printed Plastic Stock	14 in. dia. x 8 in. dp. cylinder

System Specifications

System Size ⁴	Standard: 26.5 x 16.5 x 28.7 in. Extended: 26.5 x 16.5 x 39.2 in.
System Weight	60 lbs.
Operating Conditions	Temperature: 65 - 95°F (18 - 35°C)
Power Requirements	100 - 120 VAC, 50 - 60 Hz, 6A, 1 phase

RELATED PRODUCTS

CLEANPOINT
Fully Automatic Wash Station

CROSSLINK
Accurate Thermal Curing
Oven

**SELF AUDIT KIT &
UV RECHARGE PACK**

info@onulis.com | 650.479.9894 | www.onulis.com

- 1 Consult your local municipality to confirm disposal of hard plastic.
- 2 Inquire regarding unspecified materials.
- 3 Larger parts require manual rotation with optional curing table.
- 4 Clearance above machine required for loading.

© 2025 Onulis. All rights reserved. Specifications subject to change without notice. WRAP and Onulis are registered trademark of Onulis. All other product names, trademarks, or registered trademarks are property of their respective owners. Use is provided for identification purposes only. U.S. Patent No. 12,037,465 B2 and Additional Patents Pending.

