



DWP-80S




Specifications		
Applications	Custom trays, base plates, and frameworks	
Build technology	Layered projection system	
Build size	80 (W) × 80 (D) × 80 (H) mm (3.15 (W) × 3.15 (D) × 3.15 (H) in.) (The maximum amount of use per job is 300 g (0.66 lb.))	
Light source	UV-LED (Ultraviolet light-emitting diode)	
Power supply	Machine	DC 24 V, 0.8 A
	Dedicated AC adapter	AC 100 to 240 V ±10 %, 50/60 Hz
Power consumption	20 W	
Operating noise	During operation	55 dB (A) or less
	During standby	49 dB (A) or less
External dimensions	430 (W) × 365 (D) × 450 (H) mm (16.93 (W) × 14.37 (D) × 17.72 (H) in.)	
Weight	24 kg (53 lb.)	
Interface	USB	
Installation environment	During operation	Temperature: 20 to 30 °C (68 to 86 °F), Humidity: 35 to 80 % RH (no condensation)
	Power off	Temperature: 5 to 40 °C (41 to 104 °F), Humidity: 20 to 80 % RH (no condensation)
Included items	AC adapter, power cord, USB cable, liquid material vat, printing/cleaning tools (Metallic spatula, plastic spatula, tweezers, washing container × 2, hexagonal wrench, rubber gloves, work tray, etc.), Read First (booklet), etc.	

System Requirements	
Operating system (OS)*	A model preinstalled with Windows® 10, 8.1, 7 (32/64-bit versions) (64-bit version recommended) or an upgraded computer originally preinstalled with Windows® 7 or later
CPU	Intel® Core i5 or better CPU (Core i7 or higher recommended)
Memory	4 GB of memory or more (8 GB of memory or more recommended)
Optical drive	CD-ROM drive
Video card and monitor	1,280 × 1,024 pixels or more
Free hard-disk space required for installation	100 MB or more
USB cable	Use the included USB cable.

* Operation of the machine has been verified using an Intel® Graphics HD 4000 graphics card built in to the CPU.

Options	
SR100-TR	Photo-Cured Resin for Custom Trays, 1,000 g
SR100-BS	Photo-Cured Resin for Base Plates, 1,000 g
SR100-CS	Photo-Cured Resin for Frameworks, 1,000 g
LMV-80	Replacement vat

Optional Post Curing Unit : LC-3DPrint Box			
	Related voltage	115 VA, 50/60 Hz, 3.23 A / 230 VA, 50/60 Hz, 1.26 A	
	Power consumption	115 VA: 372 W / 230 VA: 290 W	
	Fuse	115 VA: AC 250 V, T 5.0 A / 230 VA: AC 250 V, T 2.0 A	
	Dimension	410 (W) × 440 (D) × 380 (H) mm	
	Weight	22 kg	
	UV Lamp	FPL 18W 78 color × 6 pcs + FPL 18W 71 color × 6 pcs	
	Time Range	0 - 99 min / Time Programs: 10/20/30 min	
	Environmental conditions (Indoor use only)	Power on	Temperature: 20 to 30 °C (68 to 86 °F), Humidity: 35 to 80% (no condensation)
		Power off	Temperature: 5 to 40 °C(41 to 104 °F), Humidity: 20 to 80% (no condensation)
	Included Items	AC Power cable, 6 pcs of UV-18W lamps-71 color, 6 pcs of UV-18W lamps-78 color, Inside metal grid, Users Instruction Manual, Declaration of conformity	

* It is mandatory to use this device (LC-3DPrint Box) properly to ensure biocompatibility when using DGS SHAPE branded custom tray resins (SR100-TR) and base plate resins (SR100-BS). It may not be possible to obtain the required biocompatibility if incomplete polymerization occurs due to too short curing time. * Please refer to the User's Manual for detailed instructions.

The DGS SHAPE Promise

DGS SHAPE is the name of the new business that inherited 30 years of innovative 3D technologies of Roland DG from which it was spun off. The DGS SHAPE core mission -- "make innovation, make life better" -- is focused on delivering digital technologies that bring ideas to life, revolutionize business processes, and shape a better future. Our objective is to fuse human creativity with digital workflows to provide exceptional value across multiple endeavors, from individual craftsmanship to manufacturing, healthcare and beyond.

DGS SHAPE reserves the right to make changes in specifications, materials or accessories without notice. Actual device output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your DGS SHAPE dealer for details. No guarantee or warranty is implied other than that expressly stated. DGS SHAPE shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. All trademarks are the property of their respective owners. Three-dimensional data files may be protected under copyright. Reproduction or use of copyrighted material is governed by local, national, and international laws. Customers are responsible for observing all applicable laws and are liable for any infringement. DGS SHAPE Corporation has licensed the MMP technology from the TPL Group.



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by Roland

Denture Fabrication Workflow



Superior quality to transform the fabrication process

By rigorously analyzing the precision and fit required for digital dentures, DWP-80S intelligently determines how dentures are printed and then chooses the ideal number and layout of support points while adjusting for material shrinkage factors. Dental components that previously required an advanced level of skill can now be made easily by anyone to streamline the denture fabrication process.



Comprehensive support network for customer peace of mind

A comprehensive support network provides customers with peace of mind when using Roland DG products. In addition to online or telephone assistance, Roland DG also offers educational seminars aimed at increasing customers' familiarity and confidence with products and services. Service engineers are also available worldwide to assist customers with any questions they may have.



EASE MEETS PRECISION

Advanced 3D Technology for Denture Creation

The DWP-80S provides a remarkably simple solution for precision 3D printing of the custom trays, base plates and frameworks required for dentures. Built to produce the highest level of quality demanded by industry professionals, the new 3D printer is designed to make denture fabrication easier than previously possible.

DWP-80S

DENTAL 3D PRINTER

Projector system for making multiple components simultaneously

A proprietary projector lens design cures the new resin with UV light emitted by the projector to form precise denture applications of various shapes and sizes. The 80 mm square work area is ideal for allowing multiple custom trays, base plates and frameworks to be printed simultaneously.

* Approximate number of simultaneously printed components: custom trays – up to 3, base plates – up to 4, frameworks – up to 4 (quantities may vary depending on the size of components).

