DLP SERIES · INDUSTRIAL 3D PRINTING

JP-DLP-300

Industrial Top-down DLP Photocuring 3D Printer

405 nm Digital Projection Light Engine · 4K Resolution · 288 × 162 × 400 mm Build Volume

Release-film-free production in a 288 × 162 × 400 mm build volume. With a **4K** digital projection light engine, **0.005 mm** level and Z-axis precision, a top-down structure that needs no release film, and built-in diaphragm-pump refilling, the JP-DLP-300 runs continuously from prototyping through small-batch production — driven remotely over WEB-UI and manageable in clusters.

288 × 162 × 400	405 nm	4K	0.005
Build Volume (mm)	Digital Projection Light Engine	Resolution	Z-Axis Accuracy (mm)

01 **No Release Film**
Top-down Structure

02 **Vacuum Blade Coating**
Uniform Layer

03 **Intelligent Level Control**
Precise

04 **Auto Resin Refilling**
Unattended

05 **Remote WEB-UI Control**
Online

06 **Cluster & Scripting**
Scalable





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Key Advantages
CORE CAPABILITIES

01 Release-Film-Free Top-down Structure
A top-down (TOP TO DOWN) structure eliminates the release film and its peel force — no more failed films, no film replacement, and a markedly higher print success rate.

02 Vacuum Blade Coating
A vacuum scraper recoats every layer while removing bubbles from the resin surface, giving dense layer bonding and a smoother, more detailed finish.

03 0.005 mm Level & Z-Axis Precision
A 0.005 mm laser level sensor with a sinking block holds the resin surface within 0.03 mm, while a ball-screw Z-axis delivers 0.005 mm positioning — stable over long continuous runs.

04 Built-in Diaphragm Pump Refilling
A built-in diaphragm pump calculates the required resin volume from the live level and refills automatically — no manual pouring, no downtime.

05 Remote WEB-UI & Cluster Management
The WEB-UI opens in one click for remote upload, parameter editing, start/stop and live status — and one PC can manage multiple machines across the network.

06 Scripting & On-the-fly Adjustment
JavaScript scripting enables custom functions such as dynamic exposure, and print parameters can be adjusted in real time without stopping the build.

Self-Developed Control Software
AUTOMATED · REMOTE · CUSTOMIZABLE PRINT MANAGEMENT

Self-Developed Software
Fully self-developed and controllable, with continuous iteration and optimization.

Custom Functions & Brand UI
Custom function modules and a branded operating interface tailored to each customer.

PC Remote Control
Operate the machine from a PC — upload files, start / pause / resume — and monitor print status in real time.

Mobile App Monitoring
Check progress and receive alerts anytime, anywhere via the mobile app.

The control software is developed in-house by JIUPAI, covering the entire workflow from slicing to printing. Upload, start, pause, resume, progress monitoring and resin refilling are all completed online — the **only step that still needs hands is removing the part.**

Technical Specifications
JP-DLP-300

Model	JP-DLP-300
Printing Technology	Top-down DLP Projection
Build Volume	288 × 162 × 400 mm
Overall Dimensions	532 × 490 × 1320 mm (L×W×H)
Machine Weight	120 kg
Light Source	405 nm Digital Projection Light Engine
Optical / Machine Power	3 W / 50 W
Light Intensity	10 mw/cm³
Light Uniformity	> 90 %
Resolution	4K 3840 × 2160
Pixel Size	75 µm
Layer Thickness	0.03 – 0.15 mm

Build Speed	70 mm/H
Size Accuracy	±0.05 mm
Z-Axis Accuracy	0.005 mm
Liquid-Level Control	Laser sensor 0.005 mm, drift ≤0.03 mm
Coating	Vacuum blade
Resin Vat	Lift-out vat, depth customizable
Automatic Refilling	Built-in diaphragm pump
Temperature Control	Auto thermal control
Remote Control	WEB-UI upload / edit / control
Slicing & Scripting	STL / OBJ auto slicing · JS exposure
Support Resin	405 nm Photopolymer Resin

Applications
RECOMMENDED FIELDS



Industrial Design
Shell & Panels



Art & Sculpture
Sculptures



Auxiliary Medical
Dental Models



Architectural Design
Decorative Panels

Prototyping · Automotive · Cultural & Creative · Toys & Animation · Architectural Design · Electronics & Electrical · Auxiliary Medical · Other Industrial Fields

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