DLP SERIES · INDUSTRIAL 3D PRINTING

# JP-DLP-250

Industrial Top-down DLP Photocuring 3D Printer

405 nm Digital Projection Light Engine · 4K Resolution · 249.6 × 140.4 × 280 mm Build Volume

**Release-film-free production in a 249.6 × 140.4 × 280 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-250 runs continuously from prototyping through small-batch production — driven remotely over WEB-UI and manageable in clusters.

| 249.6 × 140.4 × 280 | 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







CONTACT
Jin Sheng Cao +86 199 5181 7226

## 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-250

| | |
|---|---|
| Model | JP-DLP-250 |
| Printing Technology | Top-down DLP Projection |
| Build Volume | 249.6 × 140.4 × 280 mm |
| Overall Dimensions | 495 × 470 × 1100 mm (L×W×H) |
| Machine Weight | 90 kg |
| Light Source | 405 nm Digital Projection Light Engine |
| Optical / Machine Power | 3 W / 50 W |
| Light Intensity | 14 mw/cm³ |
| Light Uniformity | > 90 % |
| Resolution | 4K 3840 × 2160 |
| Pixel Size | 65 µm |
| Layer Thickness | 0.03 – 0.15 mm |

| | |
|---|---|
| Build Speed | 70 mm/H |
| Size Accuracy | ±0.03 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


**Prototyping**
Structural Parts


**Auxiliary Medical**
Dental Models


**Architectural Design**
Decorative Panels


**Cultural & Creative**
Figurines

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

**JIUPAI ADDITIVE**
No.1 Zong 3rd Rd., Xupu Industrial Park, Yizheng, Yangzhou, Jiangsu, China · 19951817226@163.com
Jin Sheng Cao +86 199 5181 7226