P400 Series

Industrial-grade 4K DLP 3D Printer

P400 Series 4K DLP 3D printer is RAYSHAPE's heavyweight product for the mass production of end-use parts.

P400 Series integrates RAYSHAPE's cutting-edge technology. In addition to having a high projection resolution of up to 3840×2160 pixels, it also has a 395mm build height.

Large format for mass production

The maximum build size of the P400 Series is 250 ×140 × 395 mm, bringing new possibilities for large-size printing and mass production.

60°C build chamber

The P400 Series chamber has a built-in high-power hot air system, which can heat the chamber's temperature to 60°C.

High-viscosity photopolymer resin

The P400 series DLP 3D printer can print industrial-grade performance high-viscosity resins. The resin properties have phenomenal mechanical strength and can be used for printing end-use parts. General characteristics: low shrinkage, impact resistance, and thermal resistance.

Direct manufacturing functional parts

The ability to directly manufacture functional parts for small batch trial production, flexible production, or spare parts for equipment, facilities, and product after-sales service based on the high-performance resin system.

Customize the pixel size

The pixel size of the DLP projector can be customized between 32.5-65μm according to the application requirements to achieve excellent detail reproduction and high dimensional accuracy.

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	P400	**P400 HD**	**P400 UHD**
Build volume	250×140×395 mm	192×108×395 mm	125 x 70 x 395 mm
Pixel size	65 μm	50 μm	32.5 μm
Technology	Low Force Peeling DLP Technology		
Dynamic layer thickness	0.025 - 0.3 mm		
Printing speed	Up to 50 mm (2 inches) / 1 hour (Depending on the resin type and slicer settings)		

Materials

Available materials	ShapeMaterials Basic / Functional / Dental / Advanced Series
Material packaging	1 kg

Hardware

Light source	LED light source, Texas Instruments DMD chip
Wavelength	405 nm
Resolution	3840 × 2160 pixels
Door control	Printing will be paused automatically if the hood/door is opened (Optional)
Building environment	Heated build chamber & Automatic heating resin tank
Touchscreen	8" touchscreen
Connectivity	USB2.0, Wi-Fi(2.4GHz), Ethernet
Input	100~120 VAC，50/60Hz 220~240 VAC，50/60Hz (Depending on the country/region)
Rated power	1450 W

Software

Operating system	Windows 7/8/10/11
File format (Input)	.stl, .obj
File format (Output)	.rs, .shape
Advanced functions	Support editing, automatic repair, model cutting, hollowing, perforating, labeling
Wireless printing	Deliver printing tasks to specified printer in LAN environment via "One Click" operation
Cluster management	Manage the printing tasks of multiple devices in LAN environment
Slicing software	ShapeWare
Language	English, Chinese

Size & Weight

Device dimension	660 × 680 × 1800 mm
Device dimension (With the door open)	1300 x 740 x 1800 mm
Net weight	170 kg
Package size	800 × 800 × 1930 mm
Package weight	200 kg

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