

Specifications

Dimensions(W/D/H)	380*350*680mm	Weight	26kg
Build Volume	192*120*110mm	Light Source Type	COB UV Light Source
Pixel Size	50µm	Resolution	3840×2400 (4K)
Printing Speed (50µm)	50mm/h (max)	Layer Thickness	50-100 µm
Module Accuracy	Z Axis :5µm, XY Axis:75µm	User Interface	7-inch Capacitive Touchscreen / USB Drive
File Formats	STL / OBJ		
Printable Materials	Dental models, orthodontic materials, surgical guide materials, etc.		
Applicable Print Types	Half dental models, implant surgical guides, Gingival, etc.		
Power Supply	220V / 350W	Humidity	< 60%
Temperature	20°C-30°C	Lighting Conditions	Avoid direct sunlight



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BSM-LP2000

LCD 3D Printer

High Precision Large Build Volume High Efficiency

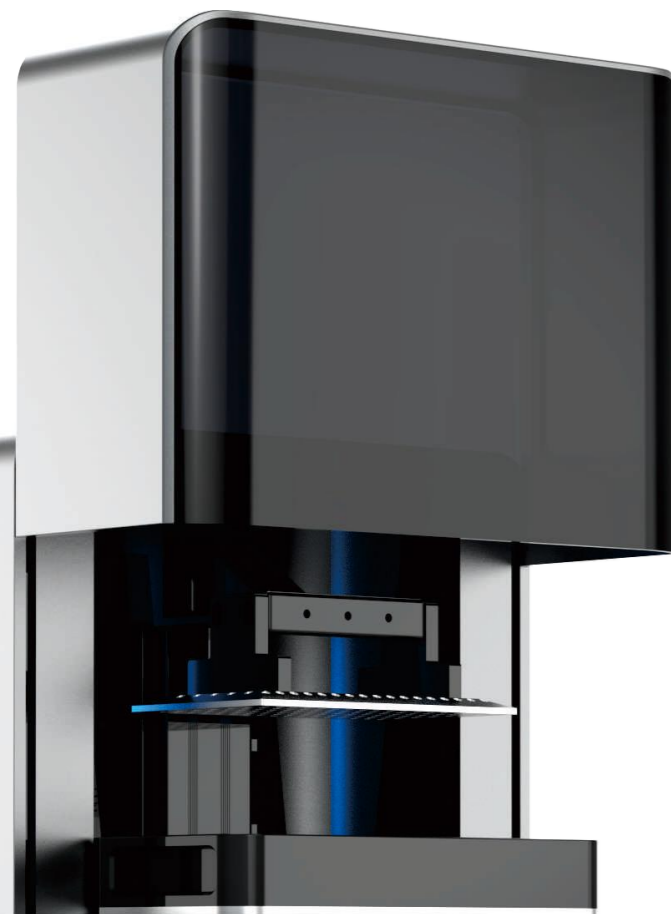


BSM-LP2000

LCD Dental Printer

The BSM-LP2000 is a dental 3D printer specifically designed for dental implantology and fixed prosthodontic applications. It is ideal for printing dental models and is perfectly suited for use in dental clinics and dental laboratories.

This printer utilized industrial-grade LCD 3D printing technology, delivering exceptional precision and efficiency in model production. It is particularly well-suited for users with high demands for detail accuracy and productivity improvements.



High Precision

- 8.9-inch 4K LCD Screen: With an individual pixel size of 50 μm .
- Industrial-Grade High-Precision Motion Module: Delivers a repeatable positioning accuracy of $\pm 2 \mu\text{m}$, ensuring smooth surfaces and finely detailed prints with high fidelity.
- Exceptional Printing Accuracy: Achieves a forming accuracy of $\pm 38 \mu\text{m}$, with scanning match accuracy reaching up to 95%.

High Stability, No Deformation

- Constant Temperature Printing Chamber: Enhances material fluidity and stability, avoiding interference from environmental temperature fluctuations.
- $\pm 50 \mu\text{m}$ Accuracy with 98% Consistency Across Multiple Batches: Delivers uniform results for repeated prints.
- Minimal Deformation Post-Curing: Achieves a 97% overlap rate after 7 days, ensuring long-term stability.

Large Build Volume, High Efficiency

- LCD Rapid Prototyping Technology: Delivers fast curing speeds and high production efficiency, minimizing waiting times.
- 192x120 mm Large Build Volume: Supports simultaneous printing of up to 10 half-arch models (laid flat), enabling batch production to meet multiple order demands.
- Printing Speed:
 - 20–25 mm/h at 50 μm layer thickness;
 - 40–50 mm/h at 100 μm layer thickness.
- Print Time Examples:
 - 10 lower jaw half-arch models < 60 minutes;
 - 8 implant surgical guide models < 30 minutes.

Easy Maintenance

- The uniquely patented resin tank design enables easy replacement of the release film, simplifying the process.

Smart Layout

- Features intelligent automatic layout, anti-aliasing, one-click supports, hollowing feature, bottom tolerance compensation, Boolean operations, label addition, cutting, and support for 19 languages.

Printing Materials

- **Low Risk:** Utilizes a new type of photoinitiator that is safer and eliminates reproductive toxicity risks associated with traditional TPO-based resins.
- **Low Odor:** Emits only a mild resin scent, offering a more user-friendly experience.
- **Low Irritation:** Made with low skin-irritation ingredients, ensuring extra care for user health.



Model Resin

High Precision: Maintains a 97% overlap rate 7 days after printing, and >90% after 15 days.



Surgical Guide Resin

High Durability: Retains high strength over time, preventing deformation or cracking after extended placement.



Gingiva Mask Resin

Quick Surface Drying: Provides a dry surface finish, making post-processing and usage easier.

Tear Resistance: Excellent tear resistance prevents cracking during use.