

# Digital Application

## All In One Step



### Specifications

| BSM-LP2000            |                                                                                    |                        |                         |
|-----------------------|------------------------------------------------------------------------------------|------------------------|-------------------------|
| Dimensions            | W380*L350*H680mm                                                                   | Weight                 | 26kg                    |
| Build volume          | 192*120*110mm                                                                      | Light Source Type      | COB UV Light Source     |
| Pixel Size            | 50µm                                                                               | Resolution             | 3840×2160               |
| Build Accuracy        | 38µm                                                                               | Module Accuracy        | Z axis:5µm XY axis:75µm |
| Printing Speed        | 50mm/h (max)                                                                       | Repeatability accuracy | 2µm                     |
| File Formats          | STL/OBJ                                                                            | Layer Thickness        | 50-100µm                |
| Power Supply          | 220V/350W                                                                          | User Interface         | 7 inches touchpad       |
| Printable Materials   | Dental models, implant surgical guide and gingiva resin.                           |                        |                         |
| Operating Environment | Temperature: 20-30 °C; Humidity: <60°C; Good ventilation; Direct sunlight avoided. |                        |                         |



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# BSM-LP2000

LCD 3D Printer

High Precision Large Build Volume High Efficiency



# High Precision Large Build Volume High Efficiency

## LCD Dental Printer

### BSM-LP2000

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 ①



#### High Stability, No Deformation ②



#### Large Build Volume, High Efficiency ③



#### Easy Maintenance ④



#### Smart Layout ⑤



The BSM Wash & Cure machine streamlines post-printing resin cleanup and curing—transforming sticky mess into display-ready perfection. The BSM Wash & Cure machine streamlines post-printing resin cleanup and curing—transforming sticky mess into display-ready perfection.

- **All-in-One Wash & Cure, Studio-Grade Simplicity**
- **Turbo-Cure Pro, From Tank to Display in 5 Minutes**



## 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.

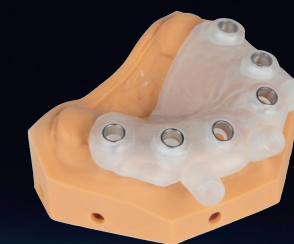


#### Gingival Mask Resin

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

**Tear Resistance:**  
Excellent tear resistance prevents cracking during use.

## Comprehensive Solutions in Dental Field



#### ① High Precision

##### 8.9-inch 4K LCD Screen:

With an individual pixel size of 50  $\mu\text{m}$ .

##### 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 matching accuracy reaching up to 95%.

#### ② 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.

#### ③ Large Build Volume, High Efficiency

##### LCD Rapid Prototyping Technology:

Delivers fast curing speeds and high production efficiency, minimizing waiting times.

##### 192×120 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  $\mu\text{m}$  layer thickness
- 40–50 mm/h at 100  $\mu\text{m}$  layer thickness

##### Print Time Examples:

- 10 lower jaw half-arch models < 60 minutes
- 8 implant surgical guide models < 30 minutes

#### ④ Easy Maintenance

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

#### ⑤ 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.