



| Preview |

Sonic XL 4K PLUS



# Sonic Sonic XL 4K PLUS LCD 3D Printer

Sonic XL 4K PLUS features a new mainboard system and substantial enhancement in build quality, providing more robust operation to withstand the demands of large batch high-precision dental 3D printing.

- **New Mainboard System:**

Designed to create smoother operational efficiency, ensuring seamless printing without any system crashes or interruptions.

- **Improved Heating System:**

A heating system upgrade aims to supply better heat distribution throughout printing. It mitigates any overheating damage while guaranteeing consistent print results and boosting overall success rates.



**Specs\*:**

System: Phrozen OS

Operation: 5" Touch Panel

Slicer Software: Phrozen DS Slicer

Connectivity: USB | Ethernet | WiFi

Design: Technology Resin 3D Printer - LCD Type

Light Source: 405nm ParaLED® Matrix 3.0

XY Resolution: 52  $\mu$ m

Layer Thickness: 0.01-0.30 mm

Max. Printing Speed: Up to 90mm/hr

Power Requirement: AC100-240V ; 50-60Hz

Power Supply: 180W

Printer Size: L33 x W29 x H47 cm

Print Volume: L20 x W12.5 x H20 cm

Printer Weight: 17.2 kg

# Workhorse Output with Large Print Volume



Crown and Bridge Model with Removable Dies

**6-8 models/print**  
**± 35 mins**



Gingiva Masks for Implant Models

**20-30 gingiva/print**  
**± 15 - 20 mins**



Clear Aligner Models

**6-8 models/print**  
**± 35 mins**



Dental Study Models

**6-8 models/print**  
**± 25 mins**



Surgical Guides

**8-12 guides/print**  
**± 1 hr**



Denture Base

**4-6 dentures/print**  
**± 1 hr**



Bite Splint & Nightguard

**4-6 splints/print**  
**± 1 hr**



Permanent/Temp Crown & Bridge

**± 45 mins**

\*Printed flat in 100µm layer height using the Turbo setting inside Phrozen DS Slicer

# Get Ready-To-Print Files Within a Few Clicks

Comes bundled with the Phrozen Dental Synergy (DS) Slicer, Sonic XL 4K PLUS automates most of the file-prepping process and further simplifies in-clinic 3D printing workflow.

- **Optimized Printing Orientation**

One click auto-orientation tailored to maximize print success rate while minimizing print time and resin consumption.

- **AI-built Printing Support**

Delivering a proper support placement, easier removal, and enhanced print success rate.

- **Seamless Integration**

DS Slicer is well-integrated with leading dental CAD software like Medit and Exocad, with more will be added in the future.



## Validated Setting for Industry-Leading Dental Resins

Providing the optimal accuracy and consistency needed for printing high-quality dental parts on repeat.

keyprint®

Next Dent

✚ SAREMCO



**DETAX**



Enlighten Materials



# List of Validated Materials

## Phrozen

- Water-Washable Dental Model Resin
- Dental Ortho Model Resin
- Dental Study Model Resin
- Gingiva Mask Resin

## PacDent

- Rodin Sculpture

## SAREMCO

- CROWNTEC

## NextDent

- SG Orange
- Ortho Rigid
- Ortho Flex
- C&B MFH N1
- Ortho IBT Clear
- Ortho Clear
- Denture 3D+
- Tray Blue
- Cast Purple
- Model 2.0

## Dreve

- FotoDent Guide 405nm
- FotoDent Guide 385nm
- FotoDent Denture  
Transparent 385nm
- FotoDent Denture Opak  
385nm
- FotoDent IBT 385nm
- FotoDent Model2 385nm
- FotoDent Cast

# List of Validated Materials

## KeyStone

- KeyGuide
- KeySplint Hard
- KeySplint Soft
- KeyModel
- KeyOrtho Model
- KeyCast
- KeyTray

## Dentona

- Optiprint Guide
- Optiprint Clara
- Optiprint Lumina
- Optiprint Temp
- Optiprint Cast
- Optiprint Gingiva
- Optiprint Model
- Optiprint Tray
- Optiprint Denture

## DETAX

- FREEPRINT Ortho
- FREEPRINT Splint 2.0
- FREEPRINT Temp
- FREEPRINT Model 2.0
- FREEPRINT Cast 2.0

## Enlighten

- AA Temp 50µm
- DD Guide 50µm

# Specs Comparison

## Software

## Hardware

Printer	Sonic XL 4K Plus	Sonic XL 4K 2022	
Slicer Software	Phrozen DS Slicer	Phrozen DS Slicer	
Compatible File Format	.PRZ	.ZIP	
Printer Size	L33 x W29 x H47 cm		
XY Resolution	52 µm		
Top Speed	Up to 90 mm/hr		
Printing Volume	L20 x W12.5 x H20 cm		
Connectivity	USB   Wi-Fi   Ethernet		
Printer Weight	17.2 kg		
Rail	Dual Linear Rails (Ball Screws)	Dual Linear Rails (Ball Screws)	
Operation	5" Touch Panel	5" Touch Panel	
Heater	Improved Built-in Heating System	Built-in Heating System	
USB Port	Front USB Port	Rear USB Port	
Other Improvement	New Mainboard System   Wi-Fi Antenna		