

DIO DIGITAL
CHAIRSIDE
SOLUTIONS

3D PRINTER **DIO PROBO**

***EXPERIENCE SPEED
LIKE NEVER BEFORE!***



DIO 3D Printer
PROBO

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PROBO



DIO PROBO




DENTAL 3D PRINTER



Unprecedented
Level of **Accuracy**
Unique **Design**
Dental **3D Printer**



SPECIFICATION

-  Dimension
350x550x330mm
-  Build Size
124x70x70mm
-  DLP Engine
FHD 1920x1080pixels

-  Light Source
UV LED (405nm)
-  Resolution
XY 65µm Z 100µm
-  Weight
30kg




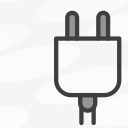


DIO PROBO CURE UV CURING MACHINE

- Fast curing time (5min) using strong UV LED power (75W).
- High quality curing through 3 Dimensional UV irradiation.
- Ensure user safety with safe cooling system.
- High quality curing using UV LED with optimal wavelengths of 385nm/405nm.
- Enhanced Energy efficiency by using LED lens.
- Uniformly cured output using a turntable.

More Accurate
and
Faster



SPECIFICATION

	Dimension 250x250x384mm		Light Source UV LED (385nm / 405nm)
	Sterilization UV Lamp 5W (254nm)		UV Power Consumption 75W
	Curing Chamber 120Ø, 95mm (H)		Weight 6kg

CAMBRIDGE SLICING SOFTWARE

Optimized and customized Cambridge software of 3shape for DIO PROBO maximizes production efficiency with automated features that enable optimal placement, orientation and support creation with simple operation.



DIO PROBO MATERIALS

DIO printing materials are specialized to digital workflow and through RFID system DIO PROBO automatically recognizes materials with simple touch, which maximizes the efficiency and convenience of use.

- **Surgical Guide**
 Printing time : 60min
 Maximum 2ea (Full arch)
- **Dental Model**
 Printing time : 60min
 Maximum 2ea (Full arch)
- **Temporary Crown**
 Printing time : 30min
 Maximum 80ea (For single crown)
- **Digital Denture**
 Printing time : 60min
 Maximum 2ea (Full arch)
- **Castable Resin**
 Printing time : 30min
 Maximum 80ea (For single crown)



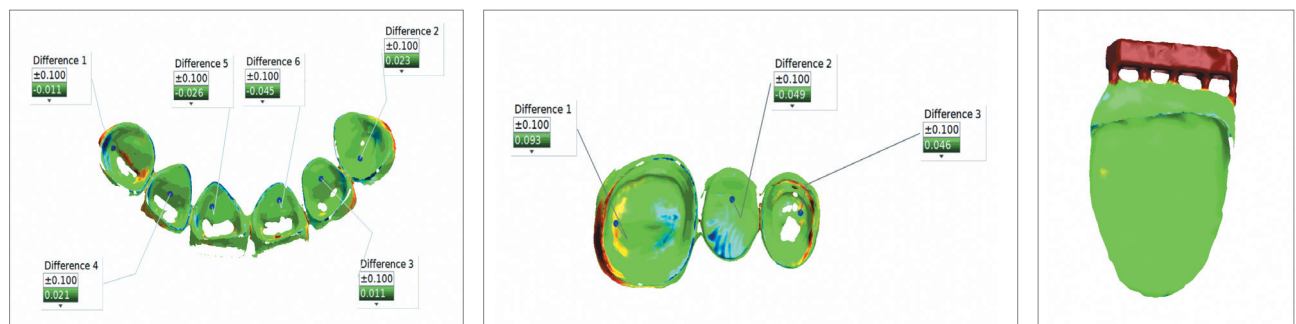
*Depending on a country, Launching schedule of materials may vary.

Temporary Crown

DIOnavi-C&B



DIOnavi-C&B is a UV curing resin developed for crown and bridge printing. The material is biocompatible and the safety and strength of printed crowns and bridges have been proved through strength, toxicity, and biological tests.



Property	Value	Method
Color	A1, A2, A3	Shade Guide
Flexural strength	>80MPa	ISO 10477:2003
Water sorption	<40µg/mm2	ISO 10477:2003
Water solubility	<7.5 µg/mm2	ISO 10477:2003
Hardness Shore D	>70	ISO 868:2003

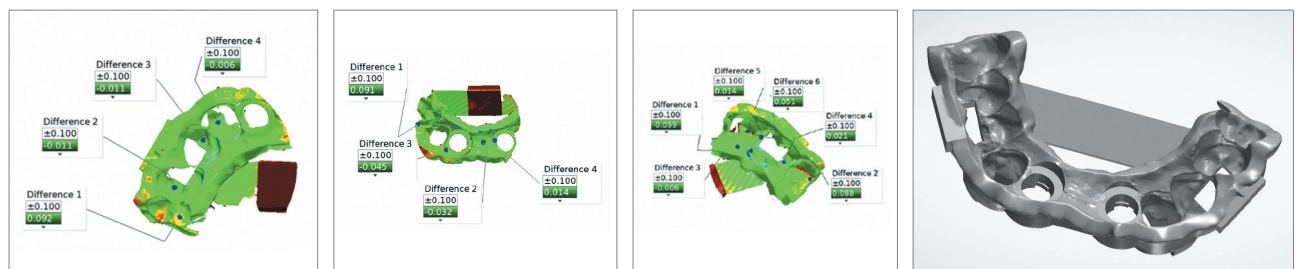


Surgical Guide

DIOnavi-SG



DIOnavi-SG is biocompatible UV curing resin developed for 3D printing of surgical guide for implant surgery. The printed guide is placed on the patient's teeth before surgery, defining the exact angle, depth and location of the implant. The material has been proved safety through toxicity and biological test.

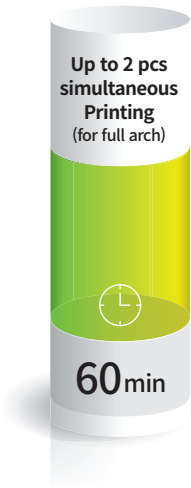


Property	Value	Method
Color	Clear, yellowish	-
Flexural strength	>80MPa	ISO 20795:2013
Water sorption	<32µg/mm2	ISO 20795:2013
Water solubility	<1.6 µg/mm2	ISO 20795:2013
Hardness Shore D	>70	ISO 868:2003

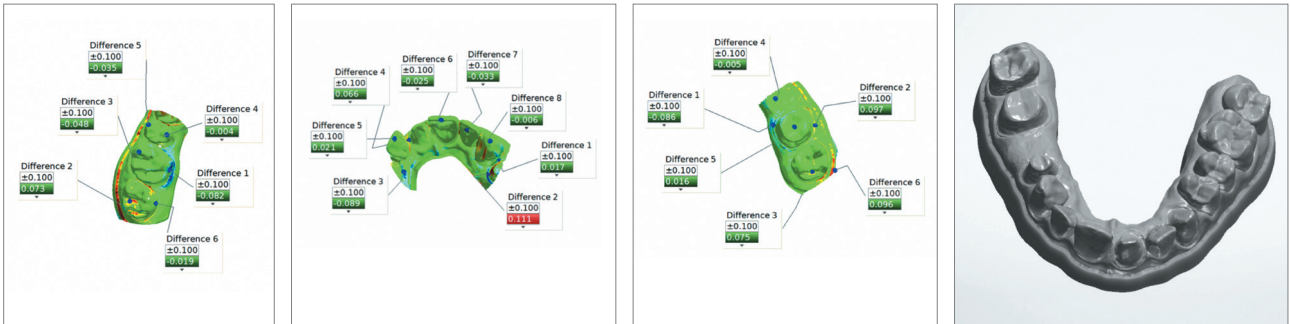


Dental Model

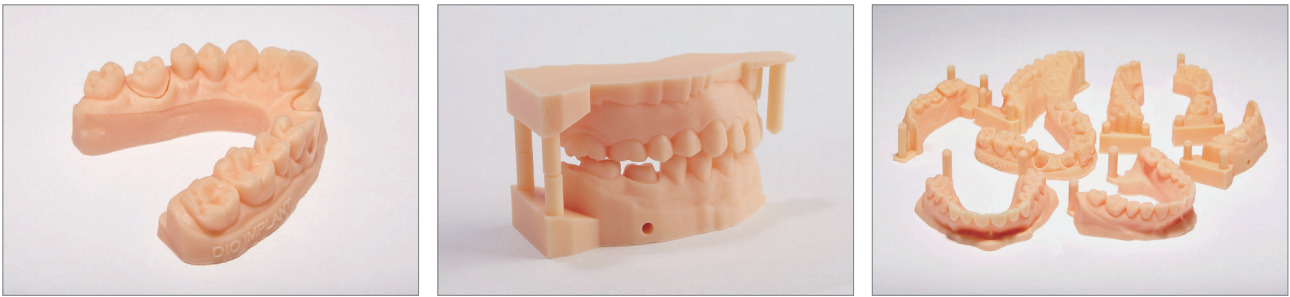
DIOnavi-Model



DIOnavi-Model is a UV curing resin for printing of dental models suitable for counseling and modeling. This material has significant lower shrinkage in consideration of fixing and margin, and at the same time it provides the high level of visibility as the impression model. The accurate printed models are the perfect base for creating dental work piece.



Property	Value	Method
Color	Orange	-
Flexural strength	>80MPa	ISO 178:2010
Hardness Shore D	>70	ISO 868:2003

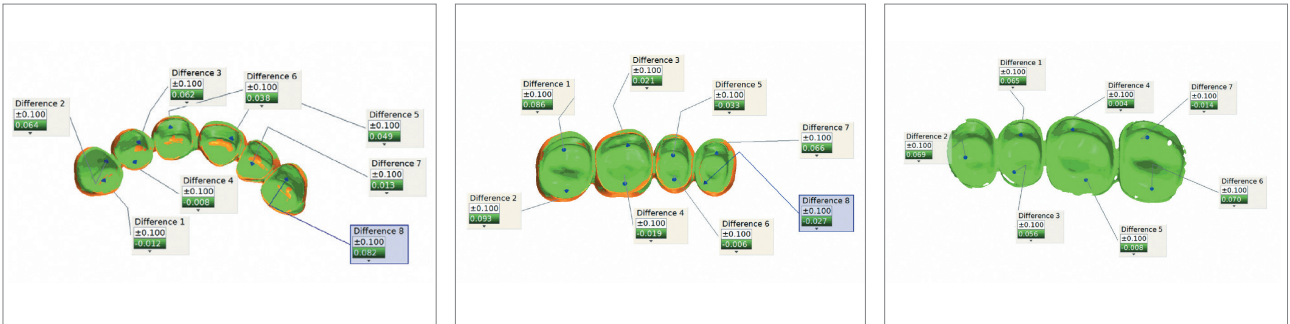


Castable Resin

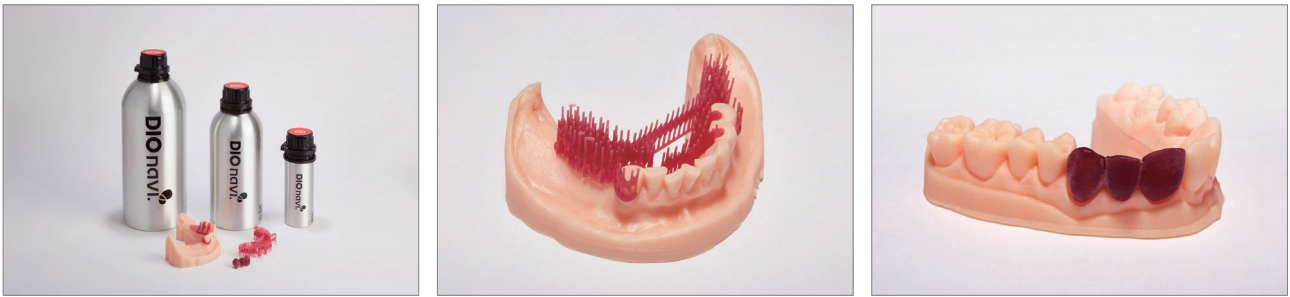
DIOnavi-Cast



DIOnavi-Cast is a UV curing resin used for printing of casting patterns. The resin is 100% lost-wax printing material, residue-free after the burnout process. It can be used for all types of casting including partial frames, metal crowns, correctional devices etc.



Property	Value	Method
Color	Dark red	-
Flexural strength	>65MPa	ISO 178:2010
Hardness Shore D	>70	ISO 868:2003



INTERVIEW

Segyero Dental Hospital | Dr. Chung Dong Keun

3D Printer DIO PROBO User Review

How does DIO PROBO influence clinical doctors and patients?

A I was very surprised by how DIO PROBO lets doctors perform surgery for their patients on the same day they first visit the hospital for a check-up thanks to the surgical guide and fast printing time.

I've benefited from the printer's high productivity having once printed around 70 temporary crowns at the same time. The printer allows you to simultaneously print in several designs so you can test them on your patient to figure out which is best and adjust when necessary.

I can save more time when treating one patient thanks to the faster printing speed, allowing me to see more patients and benefit business-wise.



Dr. Chung Dong Keun,
Chief Director of Saegyro Dental Hospital



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