DIO Ecosystem

The Full Digital Solution Ever to Reach the Peak of Innovation



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Experience the Extraordinary Everyday! Full Digital Solution

DIO Ecosystem

'DIO Ecosystem' is an optimal full digital prosthetic solution developed in a completely new design by combining digital big data and artificial intelligence (AI) technologies.

The hardware and software of 'DIO Ecosystem' deliver the most efficient, reasonable, faster, and more precise prosthesis.

From scanning, designing to fabrication, the entire workflow can be done in the clinic to fabricate surgical guide and final prosthesis. DIO Ecosystem is set to become the must-have solution for digital dentistry.





The Perfect Beginning of Your Digital Dentistry

DIO Ecosystem

With the power of perfectly designed technology, DIO Ecosystem will lead you to the peak of innovation.

DIO Ecosystem demonstrates the peak of digital innovation that makes scannning, guided surgery and prosthetic treatment possible in a single seamless workflow.

The convenience of a true digital workflows is an entirely different experience compared to partially digitalized procedure.

Enjoy the whole new level of efficient and convenient practice at your clinic, brought by DIO's perfected technology of digital dentistry.

Most Simple

Perfect

Line-up

Complete your

digital clinic with

perfect line-up of

digital dentistry

devices

Designing your own guides and crowns has never been easier! Al-supported software will do the magic.

Just 1 hour

Unbelievably fast!
Only one hour is enough for the final prosthesis

Extreme Hardness

The new bio-friendly 3D printing materials make the prostheses that are close to natural teeth

Best Choice

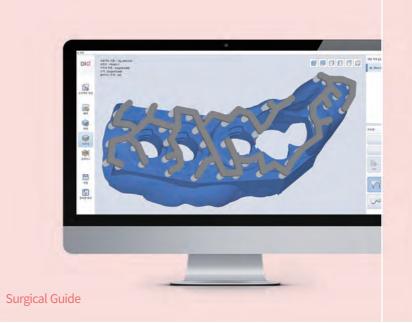
A smarter choice, now it's easy to make prostheses in the clinic, not in a dental lab



DIO Ecosystem

DIGITAL WORKFLOW

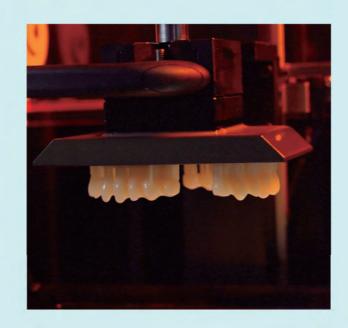


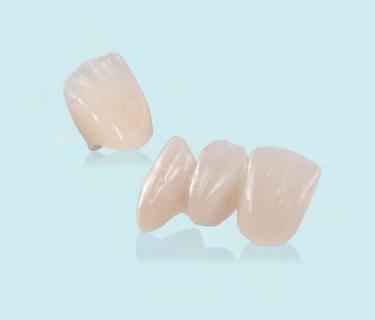












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Designing

03

04

Scanning

Scan the patient's mouth condition to obtain impression data.

Surgical Guide

Crown

Design surgical guide at DIOnavi. Center or at clinic

DIO ECO CAD S/W makes it easy to design prostheses similar to the patient's natural teeth.

3D Printing / Curing

DIO PROBO Z prints out high-quality surgical guide.

High-quality final crown is printed using DIOnavi-P. MAX.

Completion & Usage

Digitally navigated implantation using surgical guide

Connect the esthetically printed final crown.

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SCANNING Medit *i*700

Provides comfort to both the patient and the clinician with easy scanning.

Start of a digital clinic



Amazing Speed

The two high-speed cameras on Medit i700 materializes fast and effective scan speed. The artificial intelligence-based scan algorithm quickly recognizes the scan area and supports flawless smooth scanning. Also with the high-speed video function, a lot of data can be shot in a short time.



Scanning without Powder Coating

There's no need to coat with powder when scanning a regular case, so the scanning process is simple, and this provides a more comfortable environment for the patients.



Small Scan-tip

The scan-tip is designed to be the minimal size considering the scanning area. Not only that, but the lightweight and the grip shape for long-hour usage enables comfortable scanning for both the patients and the clinicians.



High-resolution Scan

HD high-resolution camera captures the scanned teeth image in detail and distinguishes the margin of the prepped teeth, which then increases the suitability of the prosthesis. It can also express a scan image color real enough to separate the soft tissue and plaque.





DESIGNING **DIO ECO CAD Software**

Powerful AI feature instantly renders your crown designs and morphs as you wish.

Magical result in one click

Easy and simple design software makes a hassle-free process

Optimized Auto-Design

With DIO ECO CAD which was applied with big data and AI fusion technology, anyone can easily design dental prostheses.

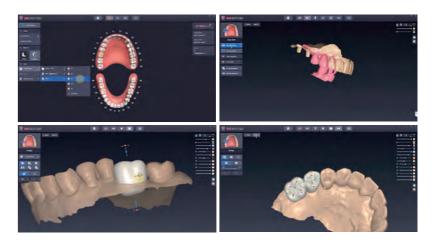
Smart Abutment Library

Data of the Scan adaptor and the customized abutment is transferred to different individual libraries, which allows anyone to easily and accurately design implant prostheses.



Various types of prostheses can be designed such as Onlay, Inlay, Single Crown, and Bridge Crown.





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3D PRINTING / CURING DIO PROBO Z / Cure2

Unstoppable evolution of performance.

This is the endgame for the most precise 3D printer.

Meet the most precise output possible with a 3D printer in the history of DIO with the precision degree of $\pm 50 \mu m$. Faster and more powerful DIO PROBO Z shows top performance out of all other printers on the market.

High Resolution & Accuracy

Can print a Full HD (1920 x 1080) DLP of high-quality prostheses.

Increase in Precision and Speed

With the precision degree of $\pm 50\mu\text{m}$, it takes 14 minutes using "DIOnavi-C&B" and 25 minutes using "DIOnavi-P. MAX" for batch printing 40 single crowns.





The slicing software is DIO's proprietary software optimized for DIO PROBO Z for compatibility and usability. With fast data processing feature, DIO PROBO Z performs with maximum efficiency and productivity.





3D PRINTING MATERIAL **DIOnavi-P. MAX**

Unlimited DIOnavi-P. MAX
Firmer than any material, Stronger from the beginning.

DIOnavi-P. MAX uses hybrid nano technology to dramatically boost the already top-of-its-class durability once again.



190MPa

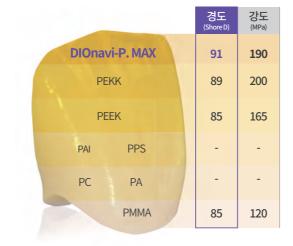
Prostheses with high strength and high elasticity of 190Mpa were developed with a 3D printer PROBO Z in the DIO lab.

10g

Extremely lightweight, less than 10g. (per single arch)

Realization of Aesthetics

Prostheses design that is optimized for patients' oral cavity.



DIOnavi-P. MAX vs PEAK Family Polymer

*PEKK Poly Ether Ketone Ketone: A new Polymeryc material with high physical properties used for aerospace and medical implant applications, recently being used to fabricate dental fixed prostheses, post, temporary abutment, and attachment. [JDT, Sept 9, 2019, Surface characteristics and bonding performance of polymer restorative materials for dental CAD/CAM systems / J Adv Res. 2020 Sep. PEKK, An emerging biomaterial for oral implants and dental prostheses]

*Hardness and flexural strength tested on prostheses fabricated using DIO PROBO 3D printer at DIO R&D Center.



DIOnavi-SG

DIOnavi-SG is a biocompatible photopolymer material developed for printing surgical guides used in patient-customized implant surgeries. It is a material that has been tested for toxicity and biological test on the human body as well as its strength.

SPECIFICATIONS

Medit i700

 Dimensions
 248 x 44 x 47.4 mm

 Tip Size
 22.2 x 15.9 mm

Weight 245g Light Source LED

Scan Area 15 x 13 mm

Connectivity USB 3.1 Gen1 (C Power Delivery)

Accuracy (Full Arch) $10.9 \mu m \pm 0.98$



 Dimensions
 300 x 378 x 484mm

 Build Size
 105.6 x 59.4 x 80mm

Type DLP

ResolutuonXY 55μm, Z 100, 50, 25μmTouch Screen7inch touch screen

Weight 20kg



DIO PROBO Cure2

Dimensions249 x 320 x 216mmCuring Volume100 x 100 x 42mmLight Source405nm LEDLight PositionTop/BottomWeight7.5kg



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DIO Implant YouTube Channel

