SHINING 3D DENTAL

Ceramix-Nano Capsule 3D Printer

Imagination Encapsulated



EN

SHINING3DDENTAL.COM

COMPACT IN SIZE

POWERFUL IN FUNCTION

Weighing only

2 kg

A precision-engineered ultra-speed capsule 3D printer, designed to support same-day permanent or temporary capsule restorations in any clinical setting.



Ceramix-Nano



Ultra-Fast Printing

Self-developed APS Technology

Print a highly-filled crown in 8-11 minutes.

2-in-1 Print & Cure

Integrated Curing Chamber

Built-in curing at up to 80°C, completed in under 3 minutes. No additional investment in post-processing devices is required.

Permanent and Temporary Restorations

Over 55% Filler Content

Designed to support both permanent and temporary chairside restorations with high-filled resins.

Unmatched Compactness

Portable & Space-saving

Print crowns, veneers, inlays, onlays, and bridges right away. Bring chairside production capability wherever you go.

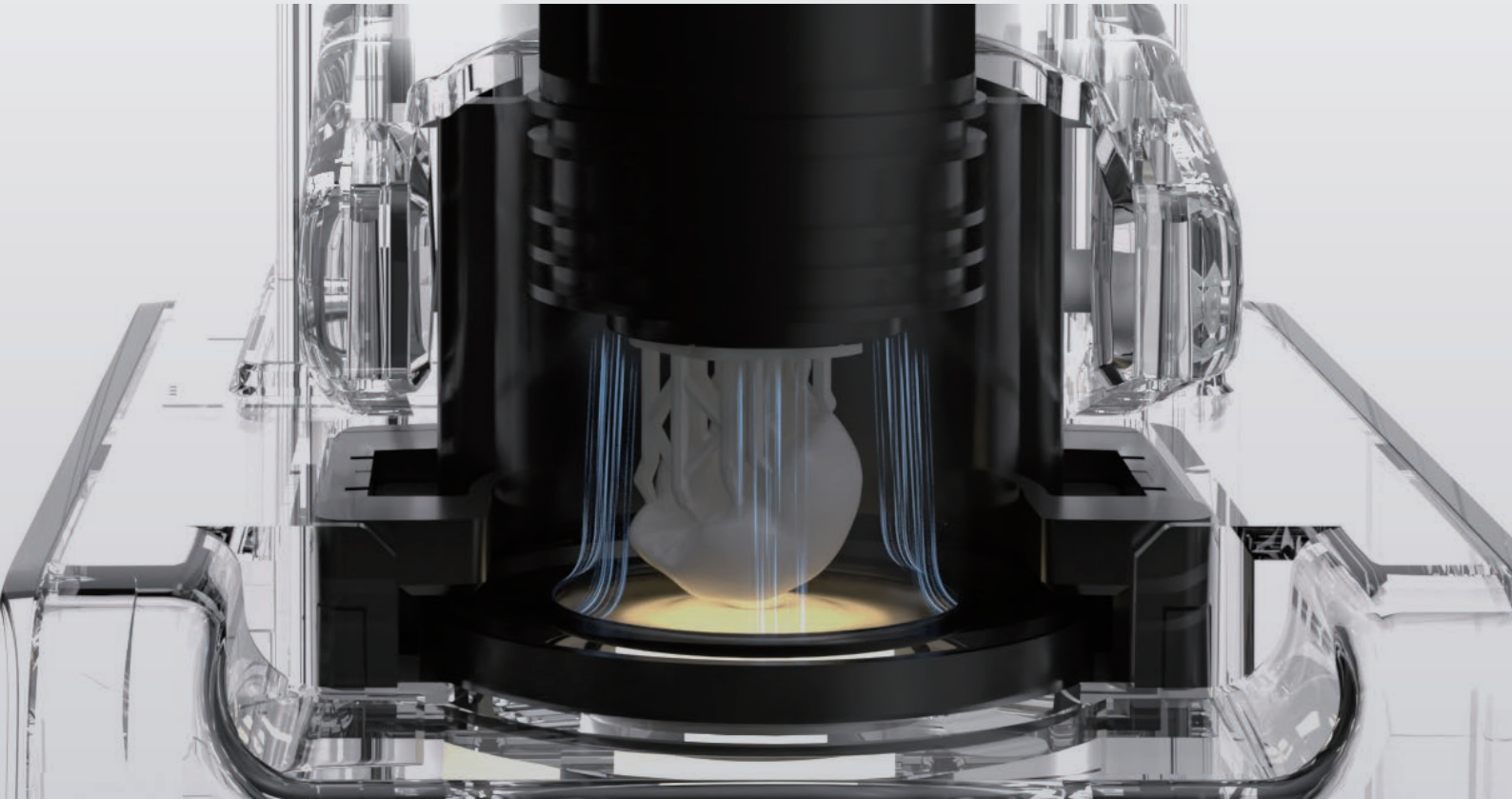
The 2kg All-in-One Micro Lab

APS Self-developed APS Technology
(Adaptive Pneumatic Stereolithography)

8-11 min
Single-crown Printing

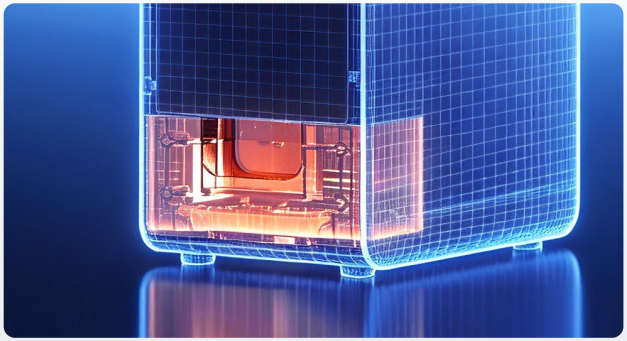
3 min
Built-in Curing

15 min
Total Chairside Fabrication



Built-in Curing Unit

Transitioning from multi-device setups to a unified 2kg system, the Nano integrates high-precision printing and an 80°C professional curing module in a single device. As an ultra-compact capsule printer, it expands what is possible with a space-efficient hardware design.





Oxygen-free Cure Module (Optional)

The oxygen-free cure module enables oxygen-free curing without the need for additional equipment, delivering a smooth, premium surface finish for highly aesthetic final restorations.

Power Bank Compatible Printing

Designed for true mobility, Ceramix-Nano supports direct printing via portable power banks. A revolutionary capsule printer that goes wherever you do.

Note: Requires a 10,000mAh+ power bank. A 10,000mAh unit supports approximately 5 complete print + cure cycles.



LumiCera
High-Performance Restorative Resins

Lumicera is the highly-filled resin inside the Ceramix-Nano capsule, pre-measured and ready to print. It combines exceptional restorative properties with a minimalist chairside workflow, ensuring superior clinical results with unparalleled simplicity.

Long-Term Durability

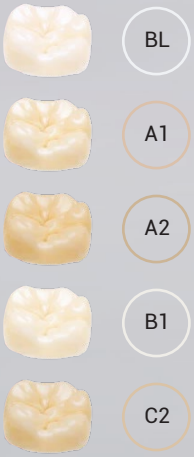
Over 55% filler content for lasting mechanical strength.

Biocompatibility

FDA Class II 510(k) cleared for permanent intraoral use.

Five VITA shades

Covering the most common natural shades: BL, A1, A2, B1, and C2.





Crowns | Inlays & Onlays | Veneers | Multi-unit Bridges



Note: LumiCera will be launched in phases across different regions, and the conformity assessment procedure under Regulation (EU) 2017/745 on medical devices (MDR) is currently in progress and is not yet CE marked. It's only for demonstration in the EU.

One Capsule, Multiple Restorations



38mm Bridge Capability

The capsule's built-in chamber accommodates bridges up to 38mm without compromising on fit or accuracy.



Up to 3 Crowns per Capsule

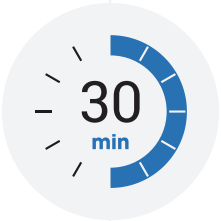
Supports printing up to 3 crowns per capsule, maximizing material efficiency and clinical productivity.



The 30-Minute Revolution
From intraoral scan to crown delivery

The Ceramix-Nano redefines chairside dentistry, printing a single crown in as little as **8 minutes**. Powered by AI design, intraoral scanning, and a cloud-driven workflow, it delivers the restoration in under **30 minutes**-all within a single appointment.





Cloud-Driven Chairside Crown & Bridge Workflow





Scan

Scan the prepared tooth with your intraoral scanner.

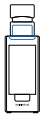




AI Design

Select the scan order and generate a crown design in under 2 minutes with the AI Design tool.





Print & Cure

Load the capsule, press print, and slide the restoration into the curing drawer. Your high-quality restoration is complete.





Deliver

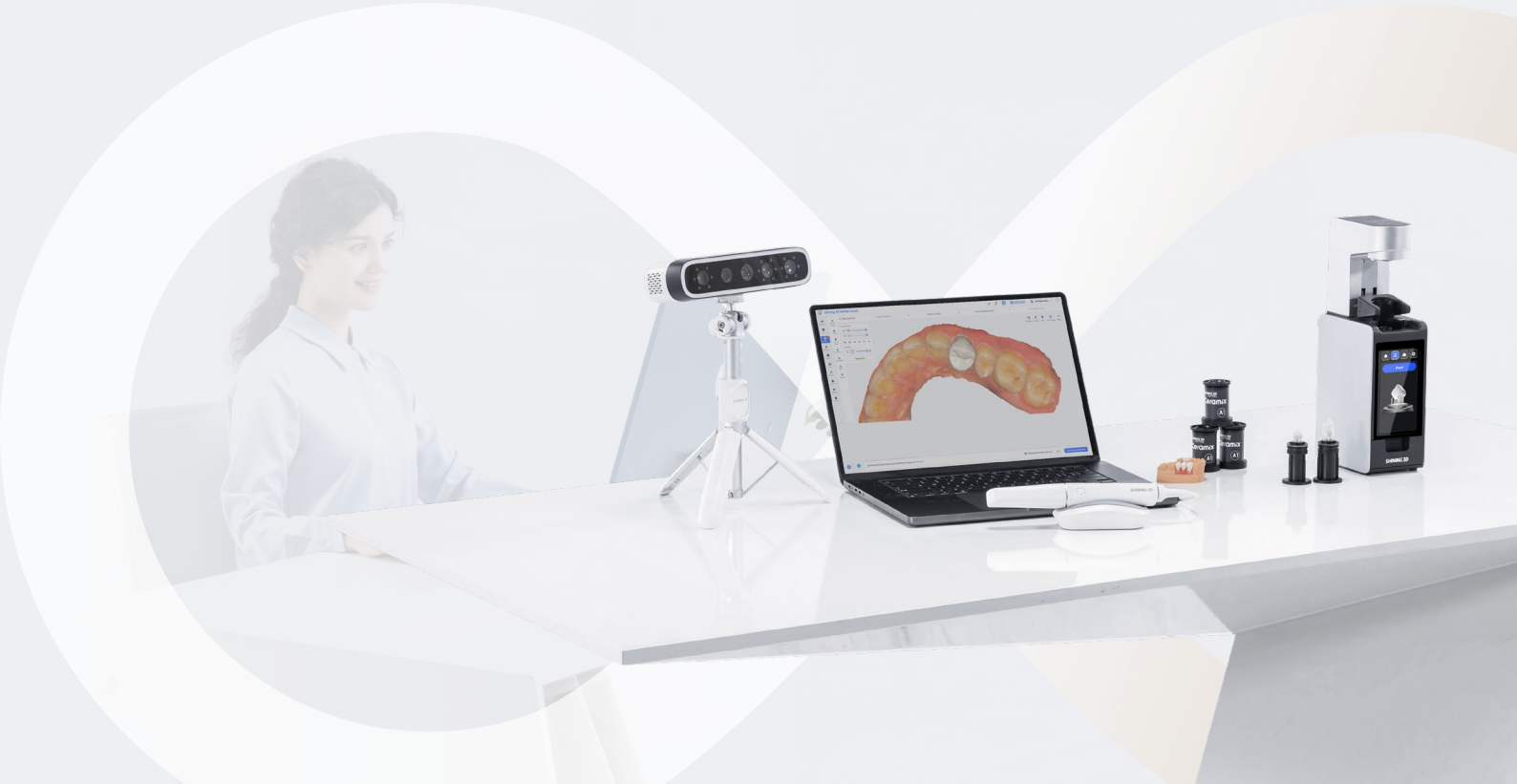
Cement the restoration and send your patient home.

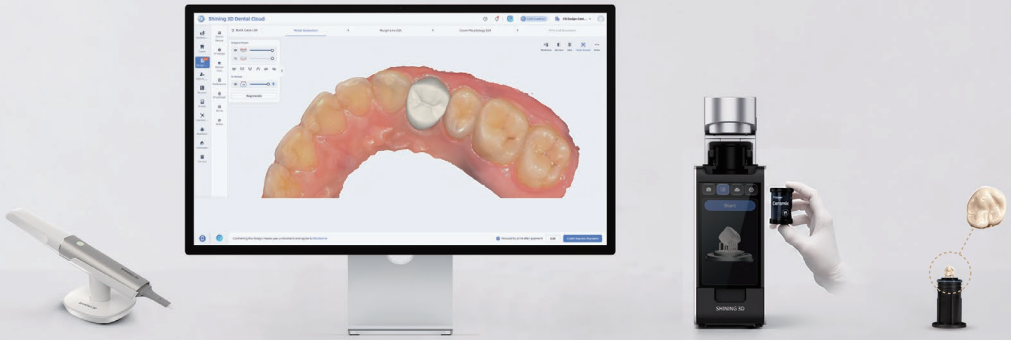
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SHINING Flow

The Complete Scan-Design-Print Platform

SHINING FLOW connects your Intraoral Scanner, AI Design, and Ceramix-Nano Capsule Printer into a single uninterrupted workflow. One platform takes you from scan to cementation. Your data stays intact, and you never need to switch software.





Step 1
Scan

Step 2
AI Design

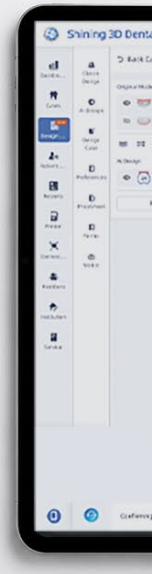
Step 3
Print & Cure

Step 4
Deliver



SHINING 3D AI Design × Ceramix-Nano

Seamless Design for Same-Day Restorations



24/7 Self-Service Over the Cloud

Access our AI-powered design service on demand, from anywhere.

Anatomy-Driven Tooth Design

AI generates natural tooth anatomy-inspired crown morphology.

AI-Powered Chairside Design in 90s

No design bottlenecks. Faster chairside delivery.

SHINING 3D Dental Cloud Platform

A Connected Digital-to-Physical Workflow,
Powered by the Cloud



Order Management

Select patient cases directly from the cloud platform to begin AI-assisted crown design.

AI Design

Complete design and refinement through a web-based workflow. No third-party platform switching required.

Intelligent Nesting & Slicing

The cloud automatically arranges and prepares your restorations for printing. No manual setup required.

One Click Printing

Once your design is confirmed, the Ceramix-Nano receives the print file automatically.



What continues to impress clinicians about SHINING 3D is their ability to deliver powerful capability in such a compact design. This new capsule printer brings powerful chairside printing for long-term restorations into an incredibly small and efficient system.

What really stands out to me is its fast chairside restoration printing speed, along with the integrated post-processing and esthetic curing capabilities, allowing us to deliver strong, highly esthetic restorations directly at the chairside with excellent final results.

At the same time, the AI crown design feature can complete a crown CAD design in just two minutes at the chairside, helping solve one of the key practical challenges in chairside restoration workflows.

With the SHINING FLOW ecosystem, we can seamlessly connect and manage the entire scan, design, and print workflow. For me, this is a simpler, clearer, faster, and higher-quality chairside restoration solution.

Dr. Isaac Tawil
DDS MS, USA

TECHNICAL SPECIFICATIONS

Ceramix-Nano

Chairside Fabrication Unit

Core Technology	APS (Adaptive Pneumatic Stereolithography)
Optical Engine	DLP
Wavelength	405 nm
XY Resolution	50 μm
Cycle Time	Typical 8–11 mins (Average ~8 mins for anterior crowns)
Dimensions (W × D × H)	87 x 131 x 276 mm
Leveling	Calibration-free Auto-leveling System

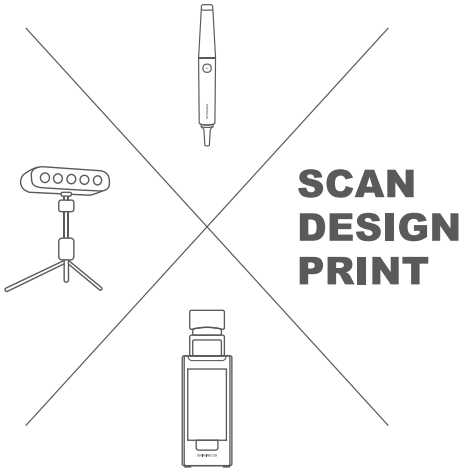
Clinical Application

Crown, Bridge (up to 3 units), Veneer, Inlay, Onlay

Post-Curing Parameters

Curing Size	50 x 40 x 20 mm
Curing Time	≤3min
Light Intensity	200 mW/cm²
Max Curing Temperature	80°C
Curing Wavelength	365-385 nm

*Notice: SHINING 3D reserves the right to introduce modifications or alterations to any of the specifications and images used in this document.



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