



LUCITONE DIGITAL PRINT DENTURE WORKFLOW SOLUTION

More Speed.
More Predictability.
More Profitability.

Bringing Digital Efficiencies to a Growing Segment

PROBLEM: As the baby boomer generation ages, there is a growing demand for removable prosthetics. This comes at a time when lab consolidation and a skilled technician shortage is straining capacity.

SOLUTION: The Lucitone Digital Print Denture offers laboratories a cost-effective way to scale up production and throughput to meet demand and drive profitability.

Digital Denture Revolution

29%

U.S. labs that have fabricated digital dentures*

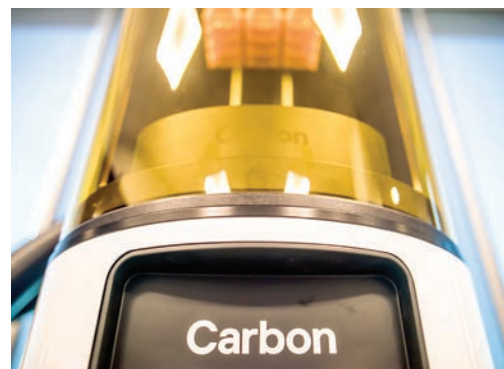
Scan Ready

80%

U.S. labs digitally enabled with scanners*

Laboratories are Seeking Answers- Digital Efficiency is the Key to Addressing the Critical Needs

- 95%** Exceptional capacity*
- 90%** Reduced labor demands*
- 89%** Maximizing throughput*
- 80%** Superior process for dentist*
- 75%** Improved profit margins*





Lucitone Digital Print Dentures



“The Dentsply Sirona Lucitone Digital Print 3D Denture Resin is the most dynamic acrylic I have ever worked with in the lab. The strength, color stability, and ease of use in the Carbon printer rank this product as “World’s Best”. This resin, along with the IPN 3D Digital Denture teeth, will become the standard that all other dental lab workflows will aspire to reach.”

Jerry Kaizer, CDT, Owner & President, Murray Kaizer, Inc.



“Denture making is entering a new renaissance with Dentsply Sirona and Carbon leading the way.”

Stephen Wagner, DDS, FACP, Wagner Denture Group



“Dentsply Sirona 3D print materials, Lucitone Digital Print and IPN 3D, combined with Carbon provides a digital workflow that will increase productivity while providing successful outcomes for patients!”

Robert Kreyer, CDT, CEO, Dentgnostix

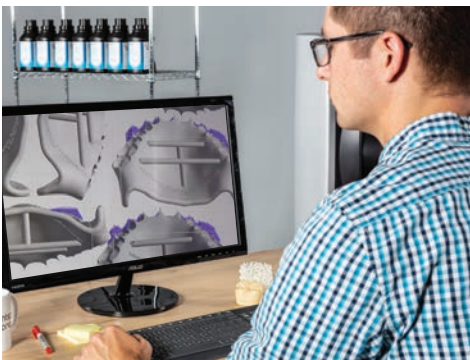


STEP SIMPLICITY

▶ SCAN & DESIGN

PROBLEM: Traditional denture fabrication requires highly skilled technicians, a rare commodity in today's marketplace.

SOLUTION: Laboratories can leverage existing CAD/CAM skills (scanning and design) to produce digital dentures using an open-design system and IPN 3D Digital Denture Teeth CAD libraries.



▶ PRINT

PROBLEM: Denture production capacity can be limited by technician skill and availability and material processing time.

SOLUTION: With Dentsply Sirona Lucitone Digital Print Dentures, 3D print output is fast and easy, producing up to 8 denture bases in two hours. This efficiency answers laboratory needs for increased production capacity and throughput.



Labor
per
Arch

▶ 30 minutes

▶ 4 minutes

The Future of Dentures is Digital

▶ WASH & RECYCLE

PROBLEM: A clean lab is a happy lab. Unfortunately, traditional dentures, and many printed dentures today, require excessive mixing and complex cleaning which is not convenient for efficient production.

SOLUTION: Lucitone Digital Print utilizes a simple cleaning process that takes just 4 minutes per arch. Plus, 3D additive technology reduces waste in the lab, and the unused material can be recovered for even greater efficiency.



▶ 4 minutes

▶ FUSE & CURE

PROBLEM: Workflows for traditional and milling fabrication can be tedious, particularly when considering long boil-out or mill times. These processes can hamper productivity in the lab and constrain throughput.

SOLUTION: IPN 3D™ Digital Denture Teeth are “fused” to the denture base using the Lucitone Digital Fuse™ Bonding System for a cohesive bond. The teeth have a no-grind design for simplified placement by technicians of all skill levels. The final appliance is cured in the inLab Speedcure™ Processing Unit.



▶ 10-12 minutes

► **FINISH**

PROBLEM: Finishing is often regarded as the “easy step” in removables workflows. However, materials can polish and finish differently leading to appliances that don’t appear premium.

SOLUTION: Now, 3D dentures appear life-like and are easy to polish and bring to a luster. Lucitone Digital Print Resin is designed with True Color Technology for consistent shade results.



► **6-10 minutes**

EFFICIENCY ANALYSIS

Technician Skill Level

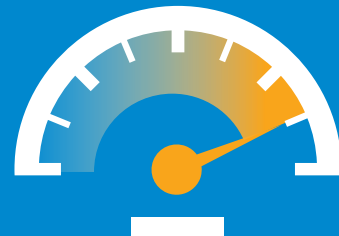
Difficult

Moderate

Easy



Max Printer Output



2 Hours = Up to 8 Bases

Printing is >900% more productive than traditional processes

Labor Speed



60* Minutes / Denture Arch

*includes estimated design time

Printing requires >25% less labor per arch than traditional processes



Give Your Lab a Competitive Advantage

Early 3D printed denture systems compromised strength, aesthetics, and tooth durability. The process to prepare the material, wash, and finish could require significant time and technician skill. Lucitone Digital Print Dentures let you have it all.

High Impact Material

Lucitone Digital Print 3D Denture Resin exceeds ISO requirements for materials with improved impact resistance. The printed material resists breakage due to its unique formula delivering high-impact resistance and flexural strength. A confidence builder for patients, clinicians and labs.

Body Activated Material

Lucitone Digital Print 3D Denture Resin features smart polymer technology that permits the finished denture to immediately respond to body temperature (while being worn), to have amplified material properties resisting breakage and preventing the worsening of any existing cracks or fractures.

IPN Durability

IPN 3D Digital Denture Teeth are digital-ready teeth that provide a versatile combination of aesthetics, function and performance. IPN 3D deliver exceptional wear resistance and excellent stain resistance.



Lucitone Digital Print™ 3D Denture Resin

- Optimized for Carbon M-Series Printers
- 5 Lucitone shades
- Exceeds ISO high impact standards
- No mixing required - just pour & print
- Easy to polish

Lucitone Digital Try-In™ 3D Trial Placement Resin

- Mono-color Try-In materials
- 6 tooth shades



Lucitone Digital Fuse™

Step 1 - 3D Tooth
Conditioning Agent

Lucitone Digital Fuse™

Step 2 - 3D Denture
Bonding Resin

Lucitone Digital Fuse™

Step 3 - 3D Denture
Sealer



IPN 3D™ Digital Denture Teeth

- Inspired by Portrait® IPN®
- Smart assortment meets over 80% of patient needs
- 14 Anterior & 12 Posterior (upper & lower)
- Available in 16 A-D shade designations + 2 bleach shades



inLab Speedcure™ Processing Unit

- 120V light curing machine
- Cures 2 arches in 26 minutes



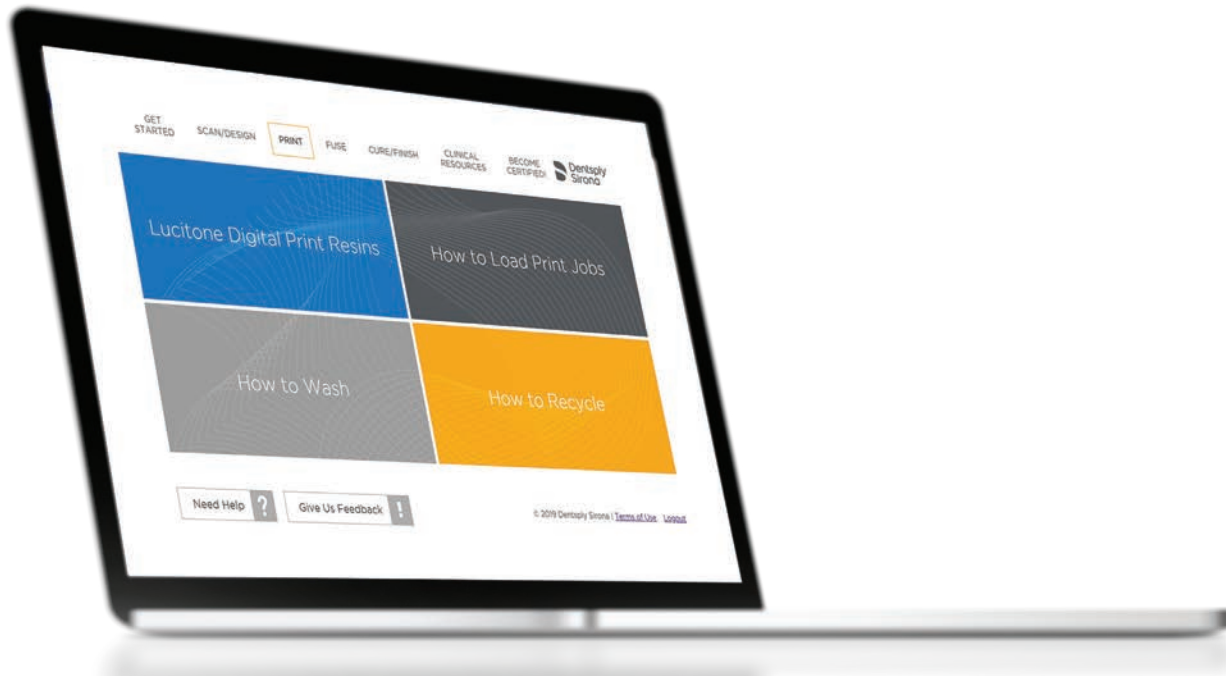
Crafted by Carbon™

With Carbon®, you can now get greater accuracy, improved return on investment, and high reliability for your lab. With groundbreaking DLS™ technology and advanced manufacturing features, the Carbon M2 printer is the ideal printer for mid and large dental labs, offering exceptional accuracy, reliability, and throughput. Regular over-the-air software updates means your Carbon machine never becomes obsolete - it only gets better over time. And Carbon has the highest customer satisfaction in the industry. Their unique advancement in 3D printing uses light and oxygen to rapidly produce high-quality, end-use medical-grade products including denture bases. For labs, this can significantly improve efficiency and accuracy in manufacturing, reducing the time from design to fabrication of denture bases. Digital dentures Crafted by Carbon™ have quality levels that surpass conventional manufacturing.



Lucitone Digital Print Denture Learning Portal

The Learning Portal is the gateway to expanding your knowledge and competency in all aspects of 3D print dentures. The portal offers a wealth of education for dental professionals through workflow guides, video tutorials, user applications, and Clinical Education (NBC CE).



Are you a Certified Lucitone Digital Print Lab?

Dentsply Sirona provides the resources and knowledge to make sure your lab is properly equipped for greater speed, predictability, and profitability.

Contact your Dentsply Sirona Sales Representative to learn more!

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