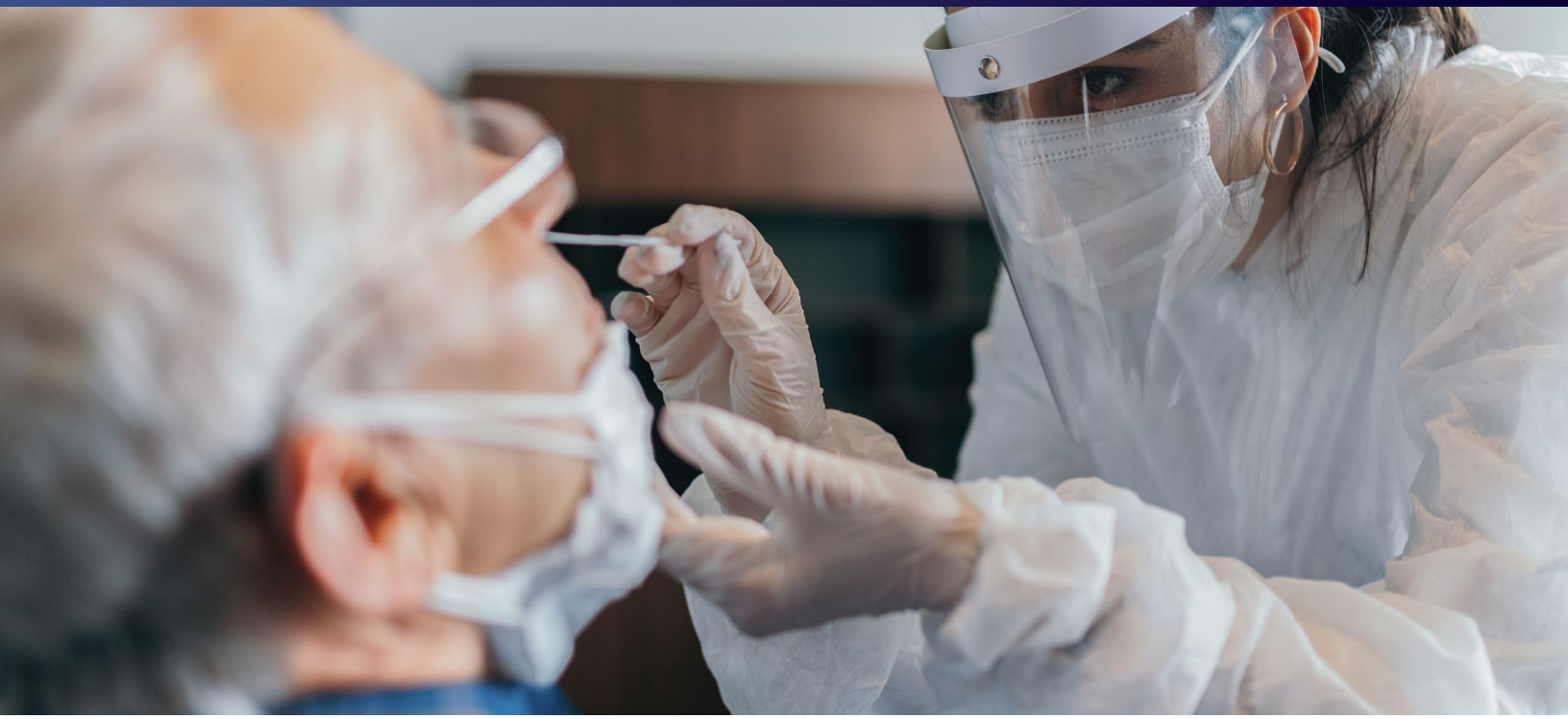
Responding to the Call

Uvitron Aids Production 3D in the Printing of Nasal Swabs

As COVID-19 began to spread in early 2020, Production 3D saw an opportunity to help. Manufacturers of 3D printed products, including tools used in the medical industry, the company tasked its product engineers to begin devising plans for nasal swabs that could be used in COVID testing. With a need to cure the resin used in the swab development, they sought our help, and we capably and proudly answered the call.



Healthy Living

3D Printing, also known as additive manufacturing, creates parts or products by layering materials, most often plastic, to create three-dimensional models. Widely used in prototype development, the process has gained popularity in recent years among medical manufacturers due to the cost savings and efficiencies it affords.

Due to the COVID-19 pandemic and the enormous need for testing and traceability, the manufacturer used best practices and lessons learned in past tool development to create high-tech, 3D printed FDA-registered Nasopharyngeal NP Swabs.

Of greatest importance were patient comfort, print speed, sterilization and of course, fast delivery times to allow testing to commence as quickly as possible. Finding a partner whose product could offer UV light curing was critically important, as was finding a product that could meet the demands needed in terms of run time and product output. Enter Uvitron and UV Conveyor 40 Plus with dual SkyRay 800 LED lamps.

One phone call to Uvitron was all it took to recognize the fit between our two companies. After a brief information exchange, Production 3D's project objectives were known, and an order was processed. Within a few weeks' time, the nasal swab production was 36 times faster, thanks to the rapid 3D post-curing of UV Conveyor 40 Plus, a high volume and high intensity light curing system.

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JR Nichols, Production 3D's project and print manager, shared some thoughts on the partnership we formed, saying, "[Uvitron is] a very professional company. [When] we had [the] special need for a COVID-19 fighting product we [were] producing, we sent samples in and they matched us with the proper equipment. We went from being able to cure 3,600 pieces in 24 hours to 129,000 pieces in 24 hours."

Can We Cure Your Production Problems?

We are proud of the product support we were able to provide to Production 3D and the contributions we were collectively able to deliver in response to the pandemic. If you are a 3D printer in need of a partner, we'd love to be able to help. Contact us today.

Length of partnership:
9 months and counting

Problem:
The global pandemic required fast response times in terms of product development and deployment

Solution:
Uvitron's UV Conveyor 40 Plus

Results:
Increased output of Nasopharyngeal NP Swabs. Went from curing 3,600 pieces in 24 hours to 129,000 pieces in the same time frame.

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— **JR Nichols, *Project and Print Manager***

About Uvitron

Uvitron International, Inc. designs and manufactures high-performance UV light curing systems and accessories. Uvitron's innovative solutions rapidly cure UV adhesives, coatings, inks, paints, gaskets, masks and specialty resins used in industrial, commercial and laboratory settings across a broad spectrum of industries. As the developer of the first electronic arc lamp power supply, Massachusetts-based Uvitron now delivers systems of proven quality with lifetime support, including complimentary laboratory testing of applications and demo system evaluations. To learn more about Uvitron and UV light curing systems, visit uvitron.com.

150 Front St., Unit 4 | West Springfield, MA 01089
413.731.7835 | Uvitron.com | info@uvitron.com