

# SmartXide DOT Advances Skin Rejuvenation

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Before Tx  
Photos courtesy of Bruce E. Katz, M.D.



After SmartXide DOT Tx



Before Tx  
Photos courtesy of Neil S. Sadick, M.D., F.A.A.D., F.A.A.C.S., F.A.C.P, F.A.C.Ph.



After SmartXide DOT Tx

Versatility, patient comfort and minimal downtime are among the features that make SmartXide DOT from DEKA Medical, Inc. (San Francisco, Calif.) an increasingly popular and unique choice for fractional skin rejuvenation.

“SmartXide DOT is a major innovation in terms of our ability to rejuvenate the skin,” said Bruce E. Katz, M.D., director of Juva Skin and Laser Center / Medispa in New York, N.Y. “It has advanced ablative resurfacing by offering the unique advantage of controlling the amount of energy delivered to tissue, as well as pulse width.”

According to Neil S. Sadick, M.D., F.A.A.D., F.A.A.C.S., F.A.C.P, F.A.C.Ph., a dermatologist and owner of Sadick Dermatology and Aesthetic Surgery in New York, N.Y., “this is very beneficial in terms of the number of conditions and skin types that I can treat, including darker skin phenotypes.”

Dr. Sadick is also impressed by the SmartXide DOT’s varying pulse width, allowing him to change power and spacing between fractional columns. “This unique feature allows me to use shorter pulses for deeper wrinkles and longer pulses for acne scars,” he explained. “Depending on the clinical situation, I can individualize treatment for a specific area of the face, by controlling tissue ablation and surrounding thermal damage separately.”

The 10,600 nm wavelength laser penetrates to an absorption depth of 0.1 mm, sparing underlying or surrounding tissue structures. It efficiently transmits energy, resulting in the need for only topical anesthesia. Furthermore, effective coagulation ensures minimal post-operative discomfort, pain or swelling. “This reduced post-operative course is another big advantage,” added Dr. Sadick.

With its three-pronged scanning technology SmartXide DOT facilitates traditional and fractional resurfacing. Normal mode achieves traditional resurfacing via sideways-moving, uniform dot scanning. Fractional resurfacing is provided

in Interlaced mode, which delivers alternating rows of scanning dots for tissue cooling, as well as Smart Track mode, which distributes random dot application to maximize cooling.

“Determining which mode to use is driven by how much downtime the patient can tolerate,” said Dr. Katz. “For patients who want as little downtime as possible, I use Smart Track over multiple treatments. Additionally, I can use Normal mode for one procedure with approximately two to three days of downtime.”

In Dr. Katz’s experience, older, non-ablative technologies provide limited improvement in skin. “With SmartXide DOT’s CO<sub>2</sub> ablative technology, we see much better results,” he said. “Patients who have undergone non-ablative treatments come in for ablative treatments and are amazed by the results.”

“The SmartXide DOT, powered by SmartPulse technology allows independent control of ablation depth and coagulation zone with the ability to deliver high power to tissue for clean ablations and fast treatment time,” stated Dale Koop, Ph.D., CEO of DEKA Medical.

“With SmartXide DOT you can move quickly or slow down when necessary,” said Dr. Katz. “By increasing dwell time, you can increase thermal energy in tissue, providing more tightening where it is needed. A lot of other devices don’t have this feature. There is also a variety of scan shapes (rectangular, triangular, etc.), allowing the user to customize treatments around the eyes, nose and in other small spaces.”

This laser also offers stacked pulses to increase depth without increasing power. “This function is very helpful for deep acne and deep wrinkles,” Dr. Katz explained. “Five stacks are available. Stacking these pulses allows the user to accomplish the desired effect in one pass, without having to stop and adjust the scan.”