

SmartXide DOT's Versatility Proves Effective for Skin Rejuvenation

By Ilya Petrou, M.D., Contributing Editor

In today's market there are a plethora of rejuvenation lasers available – each offering a distinct technology to provide diverse cosmetic treatments to targeted areas. DEKA's (Florence, Italy) SmartXide DOT CO₂ laser is one cosmetic tool that can target a large spectrum of cosmetic hindrances safely and effectively.

This novel laser is one of the first systems in a new family of fractional ablative CO₂ lasers. The SmartXide DOT features all of the advantages of ablation – one of the most potent stimulators of fibroblasts – and therefore works very well for all epidermal and dermal renewal indications including sun damaged skin, lentigines, acne scars, surgical and achromic scars as well as stretch marks.



Anne Le Pillouer-Prost, M.D.
Dermatologist
Marseille, France

"For all of these indications, you can individualize treatment for each patient by choosing from various parameters such as power, dwell time and dot spacing. You can also determine the number of sessions and the downtime required to achieve the best results for each individual patient," noted Anne Le Pillouer-Prost, M.D., a dermatologist at a private hospital in Marseille, France. By choosing the right parameters, one can promote ablation (more fluence) or thermal effects (more dwell time) and adapt the treatment for each patient or indication.

According to Dr. Le Pillouer-Prost, the SmartXide DOT is a very reliable device, offering 30 W of power and

a new generation scanning system (three modes: interlaced, smart track or classic).

"Among all the devices I have used to achieve a non-ablative remodeling effect, the SmartXide DOT device is the first one to provide objective visible results in all of my patients."

In cosmetic procedures the possibility of calibration, to eliminate significant deviation of the fluence, is of paramount importance. The SmartXide DOT device offers precise calibration, which can minimize the risk of burns with excessive fluence, as well as avoid under treatment and inefficiency.

The SmartXide DOT laser emits a SmartPulse consisting of two parts – a high power peak for rapid ablation of the epidermis and upper levels of the dermis; and a lower power for heating the tissues in depth and providing excellent stimulation for neo-collagen formation. The device's fractional modality creates a unique thermal damage pattern in which the tissues are heated in columns rather than in layers.

SmartXide DOT's versatility can be

seen when performing traditional CO₂ procedures such as full-face resurfacing (with the scanning system in traditional mode), as well as numerous medical indications including warts, seborrheic keratoses, sebaceous hyperplasia and xanthelasma.

Dr. Le Pillouer-Prost's typical treatment with SmartXide DOT takes approximately 10 to 15 minutes for a full-face procedure. By using the DOT mode, downtime is minimal and the ensuing moderate erythema allows the patient to use appropriate make-up immediately following the procedure.

"Among all the devices I have used to achieve a non-ablative remodeling effect, including flash lamps, infrared lasers, non-ablative fractional lasers and other CO₂ fractional devices, the SmartXide DOT device is the first one to provide objective visible results in all of my patients," said Dr. Le Pillouer-Prost. "The device is easy to use and can be done in an office setting without any need for anesthesia or expensive consumables."



62 year old patient before Tx



62 year old patient nine months after three sessions (parameters: 30 W, 500 micronmeter dot spacing, 1,000 ms dwell time)

Photos courtesy of Anne Le Pillouer-Prost, M.D.