

MEDICINE AND AESTHETICS

SmartXide Touch



CO₂ and Radiofrequency: Combined Action Total Rejuvenation

**DEKA Intelligent Technologies:
Experts from the Start.**

- DOT/RFTherapy
- DOTTherapy
- Periocular Lifting
- Dermatological Surgery
- Plastic and Aesthetic Surgery

All it takes is a touch

SMARTXIDE TOUCH



The Code of Excellence



**SMARTXIDE TOUCH FOR DOT/RF THERAPY:
VALUABLE SYNERGIES FOR SKIN REJUVENATION**

DEKA has developed an innovative and exclusive configuration designed for aesthetic medicine and dermatological surgery. This device is called **Smartxide Touch** and it can be equipped with the **HiScan DOT/RF** scanner system using the combined action of CO₂ laser with radiofrequency (RF).

SmartXide Touch corrects skin imperfections and counteracts the effects of aging, such as wrinkles and flabbiness, by exerting a unique action on the tissues with effective stimulation of neocollagenesis. It is also ideal for areas hitherto considered untreatable such as the neck, décolleté and periocular area.

DEKA, world leader in the development of advanced laser systems, concentrated the results of thirty years of know-how into the technological advancements of the **SmartXide Touch**. The CO₂ laser source with exclusive **PSD®** (Pulse Shape Design) technology, achieves performance levels never attained before in dermatological applications. The therapeutic action selectively reaches surface tissues and deeper areas, ensuring maximum reliability in controlling the application, with minimum thermal damage and extremely rapid recovery times for patients. In line with the ongoing quest for innovation, DEKA paves the way towards a new multidisciplinary, avant-garde laser system.

*"I have been using **DOT/RF Therapy** since 2010 with fantastic results. SmartXide Touch is clearly superior to all the other CO₂ laser sources. Thanks to the **PSD®** technology it works in continuous mode and in a multitude of pulsed modes with very different features. This versatility makes it possible to select the optimal pulse shape for the required treatment. I can work in "cold" mode when I have to vaporise with minimal heat damage to the surrounding tissues, in "hot" mode to coagulate, and also in "heat selection" mode when I have to operate in-depth on small areas, as with skin resurfacing and fractioned rejuvenation. It is precisely in this type of application that the new **HiScan DOT/RF** offers unique performance with amazing results and fewer sessions. All this is made possible by the option, offered exclusively by **HiScan DOT/RF**, of using a radiofrequency source combined with CO₂ laser."*

Prof. Nicola Zerbinati, M.D.

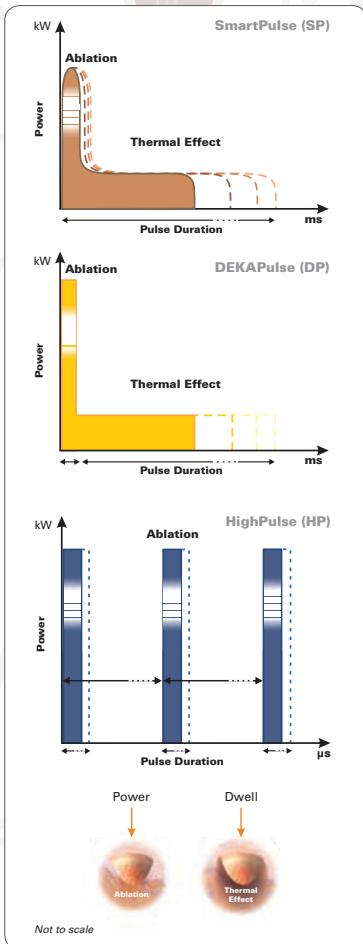
Department of Dermatology
University of Insubria - Varese, Italy



SmartXide Touch



PSD® TECHNOLOGY: UNCOMPROMISING VERSATILITY



With **SmartXide Touch**, pulses selection allows for the perfect modulation of ablation and thermal denaturation effects in the most efficient way according to the patient's needs.



DEKA software: simplicity and know-how serving the physician. The large **LCD Touch Screen** offers a quick and easy selection of the operating parameters.

The **SmartXide Touch** generates optimal pulses for multidisciplinary applications, especially in aesthetic medicine and dermatological surgery. This is the result of the development of RF CO₂ laser source equipped with the exclusive proprietary PSD® (Pulse Shape Design) technology that makes possible to have the complete control of duration, energy and shape of each pulse. With SmartPulse (SP), DEKAPulse (DP) and HighPulse (HP) the user always has the best solution for all patient's needs in skin resurfacing and surgical treatments.

PSD® can modulate the ablation and the coagulation (thermal effect) freehand and fractional scanning modes:

- **Ablation.** The high peak power delivered in very short time releases a great amount of energy rapidly and causes immediate ablation of the epidermis and the topmost skin layers, which are less rich in water.
- **Thermal effect.** Following rapid vaporisation, the CO₂ laser energy is transformed in heat propagating deep down in the water-rich derma. The result is an immediate tissue shrinkage and direct stimulation of the cells to produce new collagen.

The advantages for physicians and patients are evident: the particular features of each pulse shape is able to specifically perform several treatments offering utmost benefits, with least invasiveness, quicker recovery time and excellent results.



PLUS

HiScan DOT/RF The first scanning system that integrates CO₂ fractional laser with bipolar RF energy source.

5 SmartStack levels, for a precise control of the thermal effect and vaporization depth.

SmartTrack Exclusive randomised fractional scanning algorithm to minimise local temperature increases.

5 Scanning figures adjustable in size and height/width ratio.

More than 2,000,000 Combination settings available.

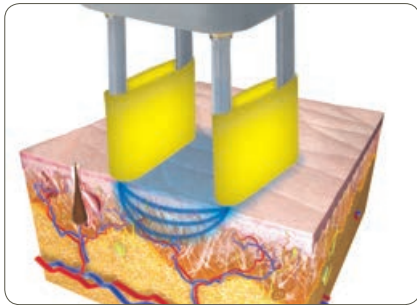
PSD® Technology The exclusive Pulse Shape Design technology enables the maximum flexibility of the pulse shape: S-Pulse, D-Pulse, H-Pulse, U-Pulse and the CW mode, greatly expand the surgical capabilities of the SmartXide Touch.

Database Integrated protocols designed for Aesthetic Dermatology and other applications (as V²LR, Gynaecology and Dentistry). An easy way to learn how to use such a complete system with so many functions.

Multimedia features Integrated photo and video tutorial providing quick and targeted training for specialists and their staff.



RADIOFREQUENCY: MORE POWER AND EFFECTIVENESS FOR LASER APPLICATIONS



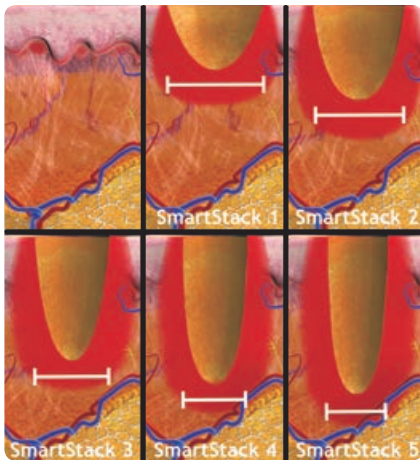
The bipolar RF technology of **HiScan DOT/RF** activates a selective heating of the derma and allows for a deep stimulation of neocollagenesis.

Radiofrequency enhances the effects of CO₂ laser treatment by remodelling tissue in-depth, toning flabbiness and stimulating fibroblast activity to produce new collagen.

The **HiScan DOT/RF** scanning system comes with two special spacers that utilize bipolar RF technology to generate selective heating with a deep and localised action on the skin. Exploiting the synergy of the CO₂ laser and RF source, the innovative **HiScan DOT/RF** can selectively reach all skin layers. The heat generated on the tissue surface is perfectly controlled to a deeper area; acting rapidly and effectively with great benefits for the patients.



THE INNOVATIVE SMARTSTACK FUNCTION



Effects of the laser pulses on the skin in proportion to increase of the SmartStack level. A progressive narrowing of the ablation channel due to the enhanced shrinkage effect can be observed.

The SmartStack function guarantees maximum precision in controlling the vaporisation depth of the skin and the thermal effect, with the possibility of varying subsequent pulse emissions from 1 to 5 in the same point (DOT), making the **DOT/RF Therapy** with SmartXide Touch safer and more effective than other pulsed laser systems with only ablative effect. As a result, rapid recovery times and enhanced patient comfort.

- **Control of thermal effect:** the laser energy can be delivered in a single pulse or in several consecutive pulses, always on the same DOT. By increasing the SmartStack level the tissue cools between one pulse and the next, thus reducing thermal damage and the risk of undesirable side effects, particularly in delicate areas or in patients with dark or Asian phototypes.
- **Precise control of the vaporisation depth:** SmartXide Touch prevents heavy bleeding and the consequent lengthy recovery times, even where greater ablation depth is called for, as in the treatment of scars.



HI-SCAN DOT/RF: VERSATILE, PRECISE, SAFE TECHNOLOGY



The new **HiScan DOT/RF** scanner system.

The **SmartXide Touch** laser technology with **DOT/RF** enables accurate selection of all the operating parameters thus making it possible to perform all types of aesthetic and dermatological treatments in the most efficient way, facilitating the patient's post-op recovery. This makes it especially proper in more complex treatments such as scars, cutaneous pigmentation, deep rhythidosis, and in the darkest skin phototypes, **SmartXide Touch** virtually eliminates the risk of PIH (*Post Inflammatory Hyperpigmentation*).

Ideal for treating delicate areas such as the neck and décolleté, **SmartXide Touch** is also particularly suitable for minimally invasive periocular lifting.



SYNERGISTIC TECHNOLOGIES OF A POWERFUL SYSTEM FOR ADVANCED TREATMENTS

Combining the benefits of a CO₂ laser with bipolar RF source, **SmartXide Touch** with the **HiScan DOT/RF** scanner offers physicians a wide range of applications and benefits thus becoming an indispensable tool in modern medical-aesthetic practices.

SmartXide Touch can be used for a wide range of dermatological and surgical treatments.

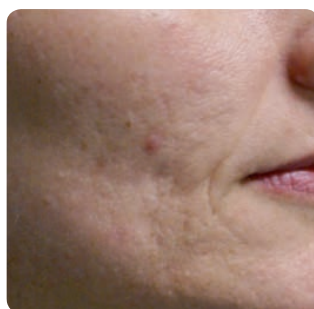


CLINICAL CASES



Combined scars treatment with DOT + RF.

Courtesy of: N. Zerbinati, M.D. Varese - Italy.



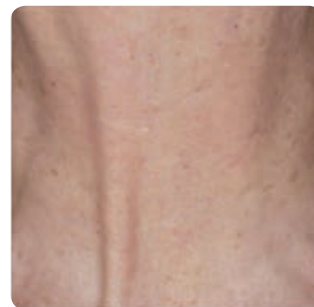
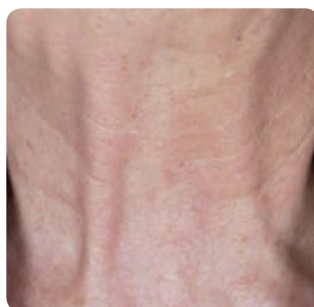
Combined scars treatment with DOT + RF.

Courtesy of: N. Zerbinati, M.D. Varese - Italy.



Periocular Lifting.

Courtesy of: P. Campolmi, M.D. - G. Cannarozzo, M.D. - P. Bonan, M.D. Florence - Italy.



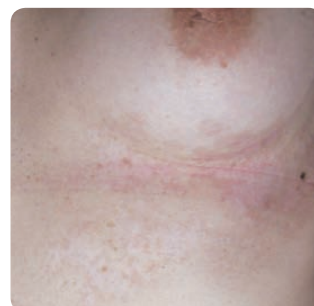
DOT Therapy.

Courtesy of: P. Campolmi, M.D. - G. Cannarozzo, M.D. - P. Bonan, M.D. Florence - Italy.



Dermatosis papulosa nigra.

Courtesy of: P. Campolmi, M.D. - G. Cannarozzo, M.D. - P. Bonan, M.D. Florence - Italy.



Inflammatory Linear Verrucous Epidermal Nevus.

Courtesy of: P. Campolmi, M.D. - G. Cannarozzo, M.D. - P. Bonan, M.D. Florence - Italy.

TECHNICAL DATA

Smartxide Touch - Configurations in Dermatology and Aesthetic Medicine*

| | |
|--------------------------------|---|
| Laser Type | CO ₂ RF - PSD® |
| Wavelength | 10.6 µm |
| Emission Beam Mode | TEM ₀₀ |
| Emission Modes | CW - SP - DP - HP - UP |
| CW Power | From 0.5 to 60 W |
| SP Power | From 0.1 to 15 W |
| DP Power | From 0.2 to 15 W |
| HP Power | From 0.1 to 8 W |
| UP Power | From 0.5 to 60 W |
| Emission Time | From 0.01 to 0.9 s |
| Delay Emission Time | From 0.3 to 5 s |
| Beam Delivery | 7-mirrors articulated arm |
| Aiming Beam | Laser diode @ 635 nm - 4 mW - Adjustable intensity from 2% to 100% - Aiming light OFF or Diode OFF while lasering (DOWL). |
| Internal Database | About 150 factory stored protocols, upgradable by USB. Possibility of storing unlimited custom user's protocols. |
| Control Panel | Wide LCD Colour Touch Screen (8.4") |
| Accessories | HiScan DOT/RF Scanner System Wide range of handpieces |
| Electrical Requirements | From 100 to 230 Vac (automatic selection) 1,200 VA - 50/60 Hz |
| Dimensions** and Weight | 118 (H) x 42 (W) x 54 (D) cm - 62 kg |

HiScan DOT/RF Scanning System

| | |
|--------------------------|--|
| Max Scanning Area | 15 x 15 mm |
| Dwell Time | From 100 µs to 2,000 µs, steps of 100 µs |
| Dot Spacing | From 0 to 2,000 µm, steps of 50 µm |
| Scanning Shapes | DOT, Line, Triangle, Parallelogram, Exagon, Square |
| Scanning Modes | Normal, Interlaced, SmartTrack |
| SmartStack | From 1 to 5 |
| RF Power | From 5 to 50 W |
| RF Dwell Time | From 0.5 to 10 s |
| Emission Modes | SP, DP, HP (DOT Fractional Scanning Mode) CW (Standard Scanning Mode) |

The scanner can be connected to a SmartCryo system to enable continuous cooling and thus preserve the more superficial layers of the skin. It is also available an accessory with a dedicated connection adaptable to the most diffused smoke evacuators.

*In this catalogue only the technical features of the Dermatology and Aesthetic Medicine applications are listed.
** Height with folded articulated arm.

CAUTION

Visible and invisible laser radiation.
Avoid eye or skin exposure to direct or scattered radiation.
Class 4 Laser product.



This brochure is not intended for the market of USA.

DOT/RF Therapy - DOT Therapy - Periocular Lifting - Dermatological Surgery - Plastic and Aesthetic Surgery



The Code of Excellence

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CE
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SmartXIDE Touch

Dealer stamp



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DEKA The Code of Excellence

A spin-off of the Ei.En. Group, DEKA is a world-class leader in the design and manufacture of lasers and light sources for applications in the medical field. DEKA markets its devices in more than 80 countries throughout an extensive network of international distributors as well as direct offices in Italy, France, Germany, Japan and USA. Excellence is the hallmark of DEKA's experience and recognition garnered in the sphere of R&D in over thirty years of activity. Quality, innovation and technological excellence place DEKA and its products in a unique and distinguished position in the global arena. DEKA manufactures laser devices in compliance with the specifications of Directive 93/42/EEC and its quality assurance system is in accordance with the ISO 9001 and ISO 13485 standards.