

# SmartXIDE SmartClinic SmartOffice-Plus



CO<sub>2</sub> laser systems for the medical field

Smartlaserline

## A NEW LIGHT ON LASER EVOLUTION

Deka has always offered a wide range of instrumentation for laser-assisted therapeutic treatment; with three versions for a very versatile type of laser use in ORL surgery, gynaecology, dermatology and cosmetic surgery.

Thanks to Deka's ongoing research and experimentation, the CO<sub>2</sub> lasers we develop allow for meeting all applicative demands like operation user-friendliness, reliability, and performance repeatability. Today all the Deka CO<sub>2</sub> lasers represent the latest horizons in technology and the most valid and safest aids for professionals, capable of streamlining and optimising their daily practice with undeniable clinical advantages.

Deka's range of CO<sub>2</sub> lasers consists of:

### SMARTXIDE

A new system with intensities of up to 30 watt. An exclusive design with an innovative control panel for easy handling and transportation, plus excellent clinical use.

**SmartXide** is the leader in a new generation of CO<sub>2</sub> lasers where the traditional features of Deka's laser devices, like safety and reliability, are combined with innovative and specific prerequisites.

A new colour touch-screen control panel displays the parameters set, facilitating the choice of new preset operating programmes.

The latest design allows for moving the system about with great ease.

High peak intensities in the pulsed mode ensure simple and reliable control of the vaporising depth of the biological tissues, thereby reducing any heat damage to the surrounding structures to a minimum thanks to the pulsed **SmartPulse** system, up until now an exclusive feature of the higher intensity systems.

**SmartXide**, another step towards perfection in surgery.

### SMARTOFFICE-PLUS

This CO<sub>2</sub> laser system with continuous intensities of up to 25 watts, which functions in continuous and super-pulsed mode, is ideal for surgery requiring extreme laser-intervention delicacy. Excellent as a practical assistant in medical studios, it comes with a large LCD with dozens of preset programmes for dermatology, ORL, and gynaecology.

A flexible and efficacious instrument SmartOffice-Plus represents the best quality-price investment for professionals.

High peak intensities and reduced emission times allow for delicate and controllable vaporisation in pulsed mode with a minimum of heat damage to the surrounding structures.



SmartXide

## SMARTCLINIC

This CO<sub>2</sub> laser system with CW intensities of up to 50 watts is ideal for dealing with all therapeutic applications in modern and efficient operating theatres. **SmartClinic** also supplies medium-to-high intensities in super-pulsed mode, designed for even the most complicated and delicate surgery. Apart from which, it is also capable of supplying soft laser pulses for delicate surface ablations ensuring a reduced presence of carbonisation. The special design allows for obtaining high peak intensities (over 400 watt) in an extremely

short time (up to 200  $\mu$ s), thanks to the SmartPulse mode.

Practical and user-friendly, **SmartClinic** is easy to transport and overcomes all space problems.

Its LCD facilitates the programming and selection of operating parameters in dermatology, ORL and gynaecology.

The system can easily be connected to all Deka's exclusive CO<sub>2</sub> accessories.

**SmartClinic**, a versatile system, compatible with the most demanding surgical requirements.



SmartOffice Plus



SmartClinic



## CLINICAL CASES

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Deka systems are now used by hundreds of professionals in the widest range of medical fields. By making this know-how available, Deka offers new users the chance to make contact with all those who have acquired experience in this sector. Another initiative that makes Deka an irreplaceable ally in technological progress.

### RESURFACING

before



After



Courtesy of: P. Campolmi MD - (Florence - Italy)

### BLEPHAROPLASTICA

before



After



Courtesy of: G. Botti MD - (Salò - Italy)

### SEBORRHEIC KERATOSIS

before



After



Courtesy of: P. Campolmi MD - (Florence - Italy)

### XANTHELASMA

before



After



Courtesy of: P. Campolmi MD - (Florence - Italy)



## ERGONOMICS

The exclusive design of all the CO<sub>2</sub> laser devices ensures optimal use of the system by the operator. The position of the controls, the shape of the handpieces, the direction of the panel and all the other features are the result of years of collaboration with hundreds of experts. The position of the patients and the

professional users, their most frequent actions and movements, have been studied in an ongoing manner in the aim of eliminating even the most minute cause of discomfort, as well as incorporating all the suggestions and valid ideas springing from extensive experience in this sector.



LCD TOUCH-SCREEN

## TECHNOLOGICAL INNOVATION

For decades the CO<sub>2</sub> lasers have represented an irreplaceable instrument in the widest range of medical fields.

The exclusive **SmartPulse** technology supplies laser radiation pulses at peak intensity for short periods allowing the vaporising of tissues without any carbonisation, thus conserving the advantages of a valid haemostasis. The improved efficiency in transferring the light energy is ensured by an articulated arm in titanium which offers reliability and safety over the

years. The innovative, high tech patented components include the light and user-friendly jointed arm, capable of delicately carrying out all surgical operations, while the titanium arm of the **SmartXide** model allows for further exalting these features.

The result of years of research, this represent a decisive step towards attaining the tops in reliability.

**Deka puts twenty year's experience at your disposal.**



## SAFETY

The treatment safety of all the Deka CO<sub>2</sub> systems is their outstanding feature .

This results in constant control of the most important features of the laser systems, including the ongoing online measurements of the intensity levels, something that does not cease even during treatment when the laser emission is in progress: a safe and useful way of ensuring absolute control of the laser emission during all forms of surgery.

Full control of the application performance, in line with the philosophy and character of all Deka's instruments.

## ACCESSORIES

Deka CO<sub>2</sub> systems come with an array of indispensable accessories for application in an extensive range of medicinal fields. Micromanipulators for ORL and gynaecology, laparoscopy adaptors, handpieces for meeting the sophisticated needs of rhinology and laryngology, plus scanners for othological applications.

Completing the range are high tech scanners for dermatology, like skin-resurfacing treatment for example.

Ongoing development in the medical field is Deka's firm commitment.

**TECHNICAL DATA**

	SmartXide	SmartOffice-Plus	SmartClinic
Type of laser	CO <sub>2</sub>	CO <sub>2</sub>	CO <sub>2</sub>
Wavelength	10.6 µm	10.6 µm	10.6 µm
Power to tissue	30 W	25 W	50 W
Repetition rate	from 5 to 100 Hz	from 5 to 100 Hz	from 5 to 100 Hz
Pulse length	from 0.2 ms to 80 ms	from 0.2 ms to 80 ms	from 0.2 ms to 80 ms
Transmission system	Articulated arm with 7 mirrors (Titanium)	Articulated arm with 7 mirrors	Articulated arm with 7 mirrors
Aiming beam	Laser diode, 3 mW @ 635÷670 nm	Laser HeNe, 1 mW @ 632.8 nm	Laser HeNe, 5 mW @ 632.8 nm
Electronic control	Microprocessor	Microprocessor	Microprocessor
User interface	LCD Color Touch-screen	LCD	LCD
Electrical requirements	230 Vac/1.8 A (max)/50 - 60 Hz	230 Vac/2.1 A (max)/50 - 60 Hz	230 Vac/2.8 A (max)/50 - 60 Hz
Dimensions	112 cm (H), 36 cm (D), 23 cm (W)	108 cm (H), 42 cm (D), 36 cm (W)	150 cm (H), 42 cm (D), 36 cm (W)
Weight	30 Kg	58 Kg	71 Kg



Fine-spot

Hi-scan

**MAIN APPLICATIONS**

- DERMATOLOGY
- SKIN-RESURFACING
- ENT
- GYNAECOLOGY
- COSMETIC SURGERY
- PROCTOLOGY
- GENERAL SURGERY

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VISIBLE AND INVISIBLE LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE TO  
DIRECT OR SCATTERED RADIATION  
CLASS 4 LASER PRODUCT  
Max. CO<sub>2</sub> laser power: 50 W, 10.6 µm, 100 Hz  
Max. pulse length: 80 ms  
Max. frequency: 100 Hz  
Max. HeNe laser power: 5 mW, 632.8 nm, 5 mW  
Classified by EN 60825-1 (2003-02)

www.dekalaser.com

**DEKA THE SCIENCE OF WELL-BEING**

Deka is the medical division of the El.En.Group, Italian leader in the production of laser equipment. Founded in 1981 it operates in more than 40 countries throughout the world. The Group's activity covers the majority of industrial applications and laser sources with powers up to 6 kW. Deka produces laser equipment in compliance with the specifications of Medical Device Directive 93/42/EEC and adopts a strict quality assurance system certified by according to the ISO 9001 and ISO 13485 standards.



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