

TECHNICAL DATA

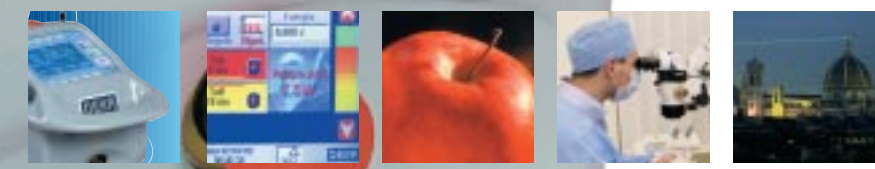
Type of laser	Frequency doubled laser Nd:YAG
Wavelength	532 nm
Power on tissue	up to 5 W
Transmission system	Optical fibres: 200, 300 and 600 µm
Electronic control	Microprocessor
Control panel	Colour LCD Touch Screen
Power supply	230 Vac / 1.5 A (max) / 50 - 60 Hz
Aiming beam	Laser diode 3 mW @ 635-670 nm
Dimensions	27 cm (7") H, 26 cm (9.5") W, 36 cm (14") D 10 kg (20 lbs)

MAIN APPLICATIONS

- ENDODONTICS
- PERIODONTOLOGY
- SOFT TISSUE SURGERY
- WHITENING



VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT
Max. power @ 532nm: 5W
Max. power @ 1064nm: 120W
Max. pilot laser power @ 670nm: 3mW
Classified by EN 60825-1 (2001-08)



www.dekalaser.com



The evolution of laser technology in dentistry

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 quality assurance system certified by according to the ISO 9001 and ISO 13485 standards.



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SmartLite represents the top-of-the-range Nd:YAG laser technology applied to odontostomatological treatments.

The result of collaboration with the university and research institutes, as well as with hundreds of users, **SmartLite** (associated with Smartbleach®) represent the new, reliable and durable method for whitening teeth with laser, capable of improving and speeding up daily dental practice with unquestionable clinical advantages.

SmartLite & Smartbleach® is the safe and efficacious whitening system as it is based on a unique and innovative method that preserves tooth enamel. SmartLite is innovative as its advantages are evident in the following:

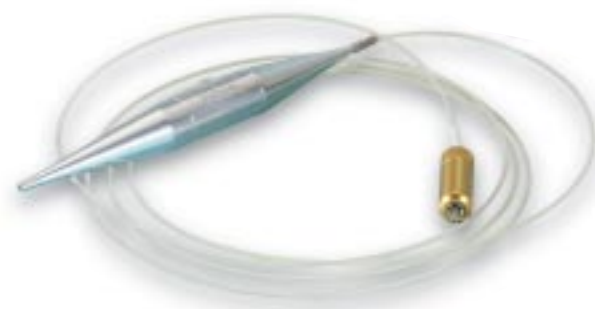
- In the vaporising and coagulating of soft tissues, with the benefits of a perfect haemostasis, also applicable in perfecting impressions thanks to the reduction of the use of anaesthetics and the total elimination of electro-scalpels;
- In whitening vital and non-vital teeth in association with **Smartbleach®**. A system that boasts years of experimentation with the support of research and tests in prestigious universities;
- In its compact size that still guarantees top performance, offering greater user-friendliness and smaller overall dimensions.

The ergonomics, user-friendliness and safety are the key factors that have allowed Deka to provide the best possible therapeutic solution.

ERGONOMICS

The special design and small size make **SmartLite** an avant-garde system, easy to use and transport from one surgery to another. The colour Touch-Screen control panel manages all the functions necessary for therapeutic treatment in a practical and evident manner.

The position of the patients and the professionals, their most frequent actions and movements have been monitored and studied in an ongoing manner in the aim of eliminating even the most minute cause of discomfort, as well as integrating all the suggestions and valid ideas arising from extensive experience in this sector.



USER-FRIENDLINESS

SmartLite represents the state-of-the-art in dual frequency Nd:YAG laser systems applied in odontostomatology.

SmartLite is a laser system that represents the amazing combination of three separate optical systems: a high power diode laser that induces laser light from a Nd:YAG laser system, whose radiation is further converted in order to obtain a green 532 nm laser radiation,

exactly half the fundamental Nd:YAG laser radiation. Average power up to 3 Watt, the exclusive **CTC** system (Computerised Temperature Control) and more than twenty different programmes that will guide you in your choice of the most suitable clinical protocol for the various applications. Deka puts twenty year's experience at your disposal.



SMARTBLEACH® SYSTEM: A TECHNICAL EVOLUTION

The **Smartbleach®** and **SmartLite** systems form part of a new and secure method of whitening teeth.

The power of **SmartLite's** green light, together with the exclusive **Smartbleach®** formula, ensure efficacious and durable results over time.

For years photo-assisted whitening has been synonymous with inefficacy and unpleasant side effects, **Smartbleach®** instead uses laser light not for heating

the bleaching paste, but rather for favouring a reaction with a minimum heat contribution. This association is capable of breaking the long molecules contained inside the mineral structures of the teeth which are responsible for the colour.

The total safety of **Smartbleach®** and SmartLite is guaranteed by the university research institutes that have taken part in the preliminary studies.

HANDPIECES

Light, stylised handpieces, flexible, resistant conductors of light waves, precision and safety, optimising of clinical performance: the versatility and completeness of **SmartLite** allows for a wide range of applications and combines the

precision of contact optical fibres with the well-known clinical benefits of frequency doubled Nd:YAG laser. Exclusive de-focused handpiece allows for carrying out a whitening action of the teeth in a safe and efficacious manner.



ACCESSORIES AND OPTIONS

- Adjustable handpiece, stylus handpiece, de-focused handpiece for whitening
- Flexible optical fibres with a diameter of up to 300 µm
- Technical and clinical manuals in English
- Fully independent system that requires no other air/water connections.

