

DEKA's Wide-Range of Lasers Offer Innovation and Efficacy

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Whether for skin rejuvenation, body contouring or dentistry, DEKA (Firenze, Italy) offers innovative and efficacious lasers. "In my opinion, the driving factor distinguishing laser manufacturers is if they offer specific training or whether they ignore this vital procedure," noted Professor Piero Campolmi, M.D., a professor of dermatology at the University of Florence (Italy). "It is extremely important to guide professionals and provide basic protocols."

During his 20 years of performing laser applications, Dr. Campolmi has always adhered to DEKA's policy. "As a company, DEKA is unwilling to passively follow trends; instead, they are constantly committed to finding real and efficacious operating solutions," he stated.



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Back in 1990, Dr. Campolmi purchased his first DEKA CO₂ laser system for dermatologic applications. "That laser is still in operation," he said. "The absolute reliability of DEKA products has been an ongoing reference point and something professionals need to be able to rely on. Our clinics are constantly filled with patients who have very little time to spare on dermatologic or aesthetic treatments. Our schedules are also increasingly tighter, so it is a great relief to be able to count on a reliable product."

Dr. Campolmi and his colleagues' interest in the phototherapy field also encouraged DEKA to develop a "decidedly revolutionary product called Excilite (a 308 nm lamp with a monochromatic light)," he noted. The innovative light source has a light intensity "far superior to conventional ultraviolet (UV) lamps. This

enables us to solve cases of psoriasis and vitiligo that are extremely resistant to every other phototherapy cure."

Over the years, Dr. Campolmi has added dye lasers, Er:YAG lasers and pulsed light laser systems from DEKA to his practice. "Our experience with DEKA continues to be very rewarding," said Dr. Campolmi, director of the Gruppo Universitario Italiano di Laser Terapia located in Italy (Italian University Laser Therapy Group). "In 1998, DEKA started experimenting with a new depilation concept that was more efficacious and safer at the same time. Thus the long pulsed Nd:YAG laser became part of our daily practice. Since then, we have found dozens of new applications, while always guaranteeing a high degree of reliability, repeatability and safety."

Professor Nicola Zerbinati, M.D., a lecturer in dermatology at the University of Insubria in Varese, Italy, finds that the SmartLipo (DEKA) is highly efficacious in destroying fat cells while reducing peripheral damage to a minimum. "Today, the SmartLipo is a mature system that enables professionals to carry out surgery that was absolutely unheard of previously," Dr. Zerbinati said. "The user-friendliness of the device turns the focal destruction of the subcutaneous fatty mass into a simple operation, with minimal side effects."

Dr. Zerbinati believes that many competing body contouring systems are inadequate and pose patient risk. "But DEKA has developed a clinical protocol for SmartLipo that is extremely reliable and safe, after years of clinical and scientific experience," he conveyed. "The use of new wavelengths and extremely elevated powers from other manufacturers do not follow this safety itinerary; consequently, the risk of producing necrotic damage and intense scarring is very high."

Dr. Zerbinati also gives high marks to the Synchro HP from DEKA. "This is a platform capable of combining high-power Nd:YAG with lamp light sources as well as with other laser



Paolo Calvani, D.D.S.
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sources," he explained. "However, it is the Nd:YAG long pulse system that offers tremendous possibilities. Apart from the normal long pulse mode, which is very versatile and adaptable to any type of skin, the Synchro HP is able to emit extremely short pulses and energy in the high peak mode. Currently, there is nothing else comparable on the market in Nd:YAG high-power systems."

Applications for the Synchro HP are already proving to be highly innovative. "Our experience with high peak demonstrates that the system is capable of inducing stimulation of the collagen at the deep dermal levels in a specifically non-thermal manner," said Dr. Zerbinati, a permanent member of the Gruppo Laser dei Dermatologi Ambulatoriali Italiani located in Italy (GILD) (Group of Italian Outpatient Laser Dermatologists). "This stimulation is then followed by traditional heating via the use of the long pulse mode for ensuring better and more beneficial non-ablative resurfacing."

In addition, the high-peak mode of the Synchro HP appears to "provide unquestionable advantages in certain vascular applications, especially telangiectasis of the legs, with reduced dyschromic risks and greater comfort for the patient," Dr. Zerbinati noted.

Dr. Zerbinati believes that DEKA's most noteworthy and beneficial characteristic is the "capacity to persevere in finding alternative roads for improving applications in the medical field." To this end, the company has introduced SmartXide DOT, a fractionalized version of its CO₂ scanner system. "SmartXide DOT is the complete system for dermatological surgery. In one product, I am able to vaporize skin gently, like an Er:YAG laser, for traditional deep resurfacing or superficial fractional rejuvenation. This is a true revolution."

New advances in the CO₂ laser for ENT (ear, nose and throat) and gynecology have also been presented in the surgical sector, including innovative robotized systems that allow surgery to be

performed that is highly repetitive, yet less dependent on operator experience.

Lasers in dentistry is another exciting product area for DEKA. "Since 1995, laser applications have become a fundamental characteristic of my clinical and professional activity," said Paolo Calvani, D.D.S., a lecturer in dentistry at the University of Florence. "Unlike dermatologists, though, dentists only reap benefits from innovative applications when they are able to apply them to the majority of their clinical cases."

Thanks to DEKA's wide-range of products, Dr. Calvani's dental clinic provides an array of diverse laser applications, ranging from the treatment of caries, to surgery of the soft tissues, implantology, periodontology and tooth bleaching. "It is no longer feasible to offer just a partial solution for a specific application because there are very few dentists who specialize in one sector only, and their number is dropping daily," Dr. Calvani observed. "DEKA is currently the only company capable of supplying laser systems suited to each specific application, and at the same time it is discovering many more new and interesting applicable possibilities."

For instance, the new DEKA SmartLite system generates a laser beam in the green region of the electromagnetic spectrum "with incredible tooth whitening results," Dr. Calvani said. The 532 nm SmartLite "is considered the most suitable wavelength for obtaining deep decontamination of the oral tissues, especially in the dentine and cement. No other conventional methods exist for achieving similar results."