Manufacturer News

KaVo

Reliable and comfortable detector of calculus in periodontal pockets

The KaVo DIAGNOdent pen is well-known and established, as a unique instrument for the detection of caries that can quickly and reliably identify healthy and unhealthy tooth substance by means of varying fluorescence. In addition to caries detection, the DIAGNOdent system can be used with a special Perio probe for reliable and comfortable detection of periodontitis. The Perio probe detects concrements in the deepest pockets reliably and without pain de-



spite the presence of saliva or blood and is therefore an ideal control instrument after root cleaning. A gentler, more thorough cleaning of pockets is thereby enabled with substantially enhanced healing. The DIAGNOdent pen's readings are communicated as a digital and acoustic signal. This confirms to the patient the need for treatment and increases compliance.

Clinical studies confirm that the use of the DIAGNOdent Perio probe for calculus detection and control of treatment improves the postoperative bleeding index and noticeably reduces pocket depth in comparison to the use of a conventional probe.

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Fotona

LightWalker—A Breakthrough in Dental Laser Technology

Fotona, the European manufacturer known for producing the highest performance medical lasers, introduces the highest technology dental laser system offering supreme clinical results and unmatched simplicity of use.

The development of LightWalker is based on Fotona's 45 years of experience in laser technology: Elements such as VSP Technology, Energy Feedback Control, QSP mode and Scanner-ready technology ensure LightWalker will lead the way in laser dentistry. The system features the ultimate in convenience and ergonomics. It has an easy-to–use color touchscreen, interchangeable optics for the new titanium technology handpieces, a Nd:YAG handpiece detection system and a new, patented OPTOflex arm which allows a complete range of motion. LightWalker lasers have three models to choose from. The top-of-the-line 20-Watt AT model combines dentistry's two best laser wavelengths: Er:YAG and Nd:YAG for no-compromise dentistry. With its groundbreaking scanner-ready technology you will be able to cut perfectly into the tissue, which will revolutionize future applications in implantology. The dual wavelength 8-watt model DT and single wavelength 8-watt model ST-E can be used in both hard and soft tissue options.



LightWalker will start a new era in dentistry, bringing treatments that are extremely comfortable for the patient and easy for the dentist to perform.

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Syneron Dental Lasers

Changing the Face of Laser Dentistry

Laser Dentistry is the wave of the future—its ticket to success is already here. Dental lasers have certainly become indispensable and are growing in popularity among the practitioner community, as well as the patients. Newer, more versatile dental lasers are making it possible for dentists to embrace laser dentistry technologies and develop new clinical applications.

Of particular interest is Syneron Dental Lasers' latest innovation, the LiteTouch™ with its breakthrough Laser-in-Handpiece™ technology, which is simply the industry's most innovative technology in recent years, well on its way to change the face of laser dentistry. Syneron Dental Lasers, the inventors of LiteTouch™, first introduced the ground breaking product in mid-2007.

This fast cutting, non-fibre, all tissue Er: YAG-Laser (wavelength 2,940nm) was commercially available by the end of 2007. Since then, the company has experienced significant success and a strong foothold in Europe and Asia. Increased demand and popularity of the LiteTouch™ in Japan has led to penetration in such new markets as Taiwan, Hong Kong and Australia.

In European countries, such as Germany and Switzerland, the Laser-in-Handpiece™ innovation has been given the thumbs up and widely adopted by private practitioners, key opinion leaders and dentistry schools. In 2010, LiteTouch™ sales in Germany alone reached a record high in comparison to other Er:YAG lasers. So what is it about LiteTouch™ that makes it so precious to laser den-

tistry? We investigated further with a few LiteTouch™ practising dental laser experts. "First of all, the LiteTouch™ is small, and because there's no delivery system, you are not limited with the movement of the hand. You can reach wherever you want – into all areas of the oral cavities due to the 360 degrees swivel," says, Dr Avi Reyhanian, DDS, an expert in laser dentistry who currently practices general dentistry and oral surgery in Netanya, Israel, and also lecturer at the ALD conference in USA. Dr Reyhanian's practice has employed dental lasers since early 2002, continues, "And what's most amazing is that this small laser has such a powerful cutting power. This laser is extremely easy to manipulate, it saves the doctor's time and is almost free of maintenance costs." He adds, "There are lots of procedures we can carry out with LiteTouch™ in the field of restorative dentistry, oral surgery, and at my clinic, no procedure is performed without LiteTouch™! We are talking about episectomy, crown lengthening, implantology, sinus lifts, GBR-technique, etc." Dr Reyhanian concludes, "LiteTouch™ has really provided me with the opportunity to earn money. I have upgraded my clinic. I have upgraded my patients and I have certainly upgraded myself as a laser specialist, no doubt about it."

Dr Mark Levin, DMD, B Med Sc, CEO and MD of Medclinic, a private medical center in Tel-Aviv, Israel, a renowned dental phobia treatment and dental treatment under anesthesia laser dentistry expert, told me a little bit about LiteTouch™, "For example, when you extract the tooth, perform the operation on the gums, prepare the teeth around this tooth, take impressions, and finish prosthetic work—all of this is carried out within a single session, and for this, LiteTouch™ is absolutely valuable." He continues, "Without LiteTouch™ we could not offer what we are offering now. This includes implantation, where the laser drills through the soft tissue and the bone, creates an opening in which we insert the implant. That means the stabilization of the implant and the gum is immediate." But more than that, actually, LiteTouch™ is a revolution. The advantage of this specific laser is that it is the first device to be flexible enough to be used in the same way as a drill. For the first time, dentists can use a laser and fully focus on their art and expertise. LiteTouch™ customers benefit from end-to-end support through Syneron Dental's network of distributors. The company often meets with the distributors to keep the flow of information and exchange of ideas constant.



Ira Prigat, President of Syneron Dental Lasers, believes 2011 will help dentists fulfil their dreams. Asked why, Prigat responds: "LiteTouch™ gives dentists the ability to serve their patients with better dentistry, the LiteTouch™ system is cost-effective and a step up toward a complete high tech clinic—Just as mobile phones freed our world from cables, LiteTouch™'s 'Laser-in-the-hand piece technology' has freed the dentistry world from optic fibers and articulated arms limitations. This metamorphosis allows free and full expression of dentists' mastery."

When asked about research and education, Prigat responded that laser dentistry education is still at its infancy. It may be due to the fact that laser dentistry is relatively new discipline and its distribution is mostly empowered by the business world. This trend is gradually changing, as laser dentistry's clinical advantages are well adopted by new generation of dentists, researchers and academic institutes. Prigat says LiteTouch™ can certainly provide the paradigm shift that is so necessary to change higher education in this field. "Our goal is to establish a very close collaboration with various universities across the globe. In fact, we are already working with several universities in Asia and Europe. At the University of Geneva, Switzerland, Dr Bader conducted a study that compared between the various Er:YAG lasers and concluded that LiteTouch™ achieved extremely high advantages in terms of performance—and results of this study will soon be presented forthcoming WFLD 2011 conference in Rome."

In Bulgaria, Syneron Dental Lasers is actively cooperating with Plovdiv and the University of Sofia, where researches on laser treatment for caries and non-caries defects. They concluded that LiteTouch™ is a healthier alternative to eliminate defects literally within seconds and completely without drilling and with hardly any pain, while fully preserving healthy tooth substance. In the Balkan region, Syneron Dental works closely with a number of leading dentists including Dr Georgi Tomov, a professor of Operative Dentistry and Endodontics and member of the Faculty of Dental Medicine at the Medical University Plovdiv. Another leader in this field working with Syneron Dental Lasers is Prof Ana Minovska, Vice Dean of Academic Affairs of School of Dentistry, Cyril and Methodius University, Skopje, Macedonia, and Director of the Dental Hygienists School.

Professor Arnabat and Professor España, Associate Professors at the Surgical Oral Implantology Master Corse at Barcelona University, Spain, have joined Syneron Dental's luminary team to cooperate on further research and education with LiteTouch™ technology.

Many other key opinion leaders have teamed with Syneron Dental family and share their growing enthusiasm regarding LiteTouch™. Some of these experts have been key figures in the industry and have years of experience with dental lasers. They report that their experience of using LiteTouch™ had significantly reduced their typical occupational health discomfort experienced with old generation lasers; dental practitioners can say goodbye to such symptoms as common hand arthritis and shoulder pain. According to an iData Research report, 12 per cent of dentists around the world are using lasers. With LiteTouch™ on board, the next generation of dental lasers looks promising and its impact is phenomenal. As the applications for dental lasers expand, more practitioners will use LiteTouch™ technology to master the future of laser dentistry and provide patients with precision treatment that may minimize pain and recovery time.

Litetouch™ is actually fulfilling the laser technology promise. The time has come for every dentist to achieve and master the dentistry future. "You have to see it to believe it", commented Dr Georgi Tomov, who is inviting passionate dentists to have a first-hand experience of this superb laser at the IDS 2011 show. Dr Tomov added: "I will certainly be happy to demonstrate LiteTouch™."

At IDS 2011, Syneron Dental Lasers plans to unveil the latest features and new technologies of the next generation of LiteTouch™, as well as deliver the latest clinical findings of LiteTouch™ laser dentistry from across the globe. Meet LiteTouch™ at IDS Show, Booth N050, Hall 4.2, March 22–26, Cologne, Germany. To explore cooperation opportunities please contact dental@syneron.com.

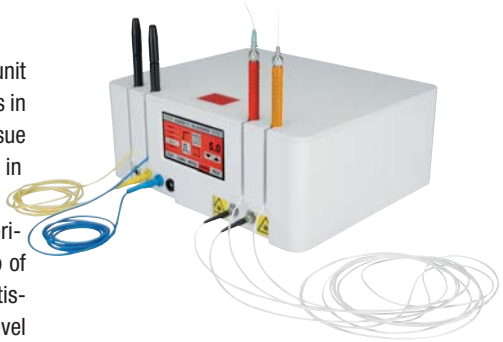
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Hager & Werken

Radio frequency and laser combined

LaserHF from Hager & Werken is a combined unit which for the first time offers both technologies in one device: laser and radio frequency. While tissue can be perfectly cut, resected and coagulated in the radio frequency, the laser offers additional, fascinating applications in endodontics and periodontics as well as in implant surgery. On top of that, new therapeutic approaches, such as the tissue treatment in therapeutic terms (Low Level Laser Therapy) and antimicrobial photodynamic therapy (aPDT) can be carried out. In fact LaserHF includes two types of laser: A diode laser with 975 nm/6 W and a diode soft laser with 650 nm/100 mW for LLLT and aPDT. An easy to use touchscreen offers 15 pre-set programs in the laser unit (10 x diode laser, 5 x diode soft laser). The radio frequency-unit offers various pre-set programs. Additionally the user can save individual programs.



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Biolase

Successful showing of Waterlase iPlus

Biolase Technology announced that it completed a successful showing at the 146th Chicago Dental Society Midwinter Meeting. Federico Pignatelli, chairman and CEO, commented, "BIOLASE has returned to its highest level of orders at the Chicago Midwinter Dental Show since 2007, when the company enjoyed annual sales of $67 million."

"Over three days at the show, the Biolase booth was visited by many current and former luminaries, as well as dozens of current customers, who showed a high level of interest in the Waterlase iPlus system," Pignatelli said. "The Waterlase iPlus system features a dual wavelength by combining the handheld and ergonomic 940 nm iLase system with the 2780 nm Waterlase iPlus. The Waterlase iPlus has further advanced laser dentistry with the introduction of new, patented laser technology that allows for cutting speeds that surpass both the dental drill and any other dental laser on the market." Pignatelli added, "Due to the strong initial interest and demand since its recent launch at the Yankee Dental Congress 36 in Boston on Jan. 27, where we received the first orders, the price of the Waterlase iPlus system has been raised by $3,000 and was offered at the Chicago Midwinter dental show at its full price, contrary to the traditional discounts expected at trade shows. Biolase's plan for the current quarter is to manufacture 80 systems, and it appears that we may have a realistic chance to end the quarter with a backlog of orders. It is certainly shaping as what could be our most successful product launch of an all-tissue laser in the history of the company."

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elexxion

Brand-new lasers at IDS 2011

elexxion AG will be presenting its shooting star pico and its new delos 3.0 – a completely new interpretation of the ideal of Er:YAG/high-power diode laser combination – in Hall 4.2, Stand J 41 at IDS 2011. Optimized versions of the well-proven nano and the claros and duros dental lasers will also be on display.

The elexxion pico has only been on the market since September 2010. The only mobile diode laser for professional use weighing less than 600 g (21 oz.) has been greeted with tremendous user enthusiasm. Dental professionals appreciate this unit for its therapeutic benefits and outstanding economy, with an excellent price-performance ratio. The pico was designed for mobile deployment anywhere in the dental office. Each charge of the high-performance lithium-ion batteries is sufficient for regular treatment day. Its well-conceived five-button user interface lets dentists alternate between endodontic and periodontological indications, three surgical levels and more than 25 specific soft-laser indications. The pico is also ideal for laser power bleaching. This laser unit makes an important contribution toward popularizing laser treatment in dentistry – a treatment modality long since successfully adopted by other medical specialties such as ophthalmology.

More and more dentists are discovering that a state-of-the-art Er:YAG/diode laser combination such as the elexxion delos 3.0 is perfectly suited for preparing the dental office for the challenges of the future, using innovative treatment methods to appeal to new patients. The elexxion delos 3.0 is based on the delos, praised since its introduction as the number-one reference device for the Er:YAG/diode laser combination as it combines the advantages of the two most important laser wavelengths in a single unit. With its patented Digital Pulsed Laser (DPL) technology, the elexxion claros occupies a unique position on the market as the arguably most powerful diode laser available. This highly mature and easy-to-use product offers the broadest range of indications, with special emphasis on major surgical procedures. The new model shown at IDS 2011 features a completely new software interface for even better operator usability.

The elexxion duros has been the focal technology of many clinical studies. At IDS 2011, a new and greatly improved version – the duros 3.0 – will be revealed to the public. It is a pure-bred Er:YAG dental laser facilitating efficient hard-tissue preparation and bone ablation tasks – without requiring external compressed-air or water connectors.



delos 3.0



pico

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