Manufacturer News

Sirona

Training for laser users

Safety is of paramount importance when laser treatment is being carried out. It is vitally necessary that dentists should have completed a certified training course of the type offered by Sirona. Our training course provides comprehensive and hands-on tuition on all aspects of the use of lasers, as well as giving users useful tips on safety and clinical application.



Details of the training and continuing education course provided by the Sirona Dental Academy may be found on www.sirona.de under the heading "Service" or on the product pages of SIROLaser Advance and SIROLaser Xtend.

Safety when using a laser begins with the selection of a suitable surgery. The door of the surgery must display a warning sign. No unauthorised persons must be allowed to enter the surgery while treatment is being carried out. Patients and all other persons present must wear laser protection glasses to prevent injuries to the eyes. The law requires that there must be a laser safety officer present in practices using a class 3b and 4 dental laser and that this officer must hold proof of specialised knowledge and expertise in the clinical application of lasers and laser protection. As the first point of contact within the practice on questions relating to the laser, this person is responsible for guaranteeing and monitoring certain safety standards.

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LIMO

Two parallel wavelengths for quick, uncomplicated surgical treatment

At the BIOS 2011 (booth 8601) LIMO presents the particularly compact diode laser with a wavelength of 1,470 nm that has been supplemented by an additional parallel wavelength: 980 nm, 940 nm or 810 nm. This long established standard wavelength on the medical market, combined with the expedient wavelength of 1,470 nm, can be individually controlled. The power rating of the fiber-coupled laser is 15 W and 30 W. On request, a power rating of >100 W can also be supplied. The dimensions of the potential-free housing are greatly reduced but, however, completely equipped: protective window, fiber contact switch, monitor diode and pilot laser are already integrated. The combination of a compact design with all additional and safety features makes it suitable for integration into OEM appliances, without causing additional development and production costs. Furthermore, the high-performance laser module makes it possible for the end user to operate at practically all working and ambient temperatures and in nearly all operating modes of cw up to the most varied pulsed conditions. Without exception, the LIMO diode laser modules are maintenance-free, so that flexible warranty periods can be provided. This has the advantage that costs are completely eliminated in the event of replacement. The product is optimally suitable in the end use for medical treatment in the field of modern surgery and urology. The two wavelengths make higher absorption possible of the laser in water and haemoglobin. In addition to the high removal rates, the treatment can be carried out ambulant, quick and with care. Further advantages for operative treatment are:



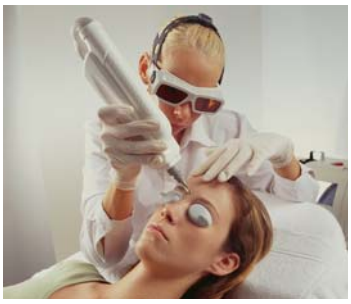
– safe and high precision treatment (less bleeding, protection of the adjacent tissue)
– minimum postoperative complaints
– quick, uncomplicated healing (no stitches)

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Laservision

New multi-use laser safety eyecaps for patients

During medical laser treatment eye protection of the patients is extremely important. By offering the completely novel laser safety eyecaps "CAP2PROTECT" LASERVISION takes care of this challenge and provides patients excellent eye protection for laser treatment in the facial area. Present eye caps are made in most cases out of rigid material like metal or plastics. They are typically connected together with a nose bridge and hold in position by an additional head strap. In contrast to that the new LASERVISION eye caps feature a unique self-adhesive effect. This effect is a basic material characteristic and doesn't become lost even after multiple reuses. The adhesive part of the cap keeps it securely in a position which protects the eye of the patient against incident laser radiation and stray light from all directions. As designed for the medical market, the caps are of course suitable for sterilisation. In order to increase laser protection and mechanical stability the eye caps feature an additional metal insert on the top side. Due to its small size and thickness the wearing comfort is not affected at all.



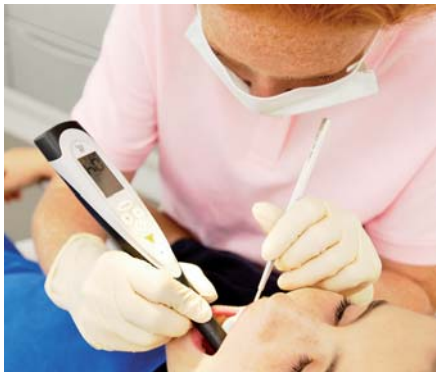
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KaVo

Early identification of caries—pain-free and safe

The KaVo DIAGNOdent pen, a unique instrument for diagnosing caries, utilises the differing fluorescence of healthy and diseased tooth substance to quickly and reliably identify early-stage caries. In addition to caries detection, the DIAGNOdent pen can be used with a special Perio probe for the reliable and comfortable identification of periodontitis.

This patented diagnostic system is small, compact and cable-free. The DIAGNOdent pen even allows the diagnosis of hidden caries which is difficult to find with a probe or X-ray since it is below the intact enamel surface. Even very fine lesions are reliably revealed without exposing patients to radiation. Caries can also be easily identified in the approximal area with a new, special approximal probe. With the approximal prism, the laser beam is deflected 100° to allow the scanning of the tooth around the contact



surface. The entire approximal area can be scanned in quadrants in just a few minutes. The DIAGNOdent pen's actual readings are communicated as a digital and acoustic signal. This confirms to the patient, the need for treatment and greatly increases compliance. In addition to the detection of caries, the DIAGNOdent pen also detects calculus in periodontal pockets. The Perio probe detects concrements in the deepest pockets reliably and without pain despite the presence of saliva or blood and is therefore an ideal control instrument after root cleaning. Residual concrements can be confidently removed. A gentler, more thorough cleaning of pockets is thereby enabled with substantially enhanced healing, whilst saving the user time by avoiding unnecessary treatment.

Clinical studies by Prof Frentzen, M.D. at the University of Bonn, confirm that the use of the DIAGNOdent Perio probe for concrement detection and control of treatment improves the postoperative bleeding index and noticeably reduces pocket depth in comparison to the use of a conventional probe.

Overall, the DIAGNOdent pen—a state-of-the-art instrument for reliable caries and calculus detection—is an ideal addition to the diagnostic repertoire of any dental practice.

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Fotona

PIPS® Revolutionizing New Root Canal Treatment Available Only with Fotona Lasers

Fotona has signed an agreement which gives Fotona dental lasers exclusive rights to perform PIPS®, a groundbreaking new photoacoustic root canal treatment. PIPS® uses Er:YAG laser energy at sub-ablative power levels for cleaning and debriding the root canal system with specially designed handpieces and fiber tips. It is a minimally invasive technique because the tip is only inserted one third deep into the coronal canal. This also gives the peace of mind that the tip will not break inside the curved canal. Shockwaves created by the laser stream cleaning solutions twice as deep through the root canal system as could be



achieved using traditional methods, in this way reaching every corner and making the procedure that much more effective. The canals and subcanals are left clean and the dentinal tubules are completely free of smear layer.

Additional advantages of PIPS® include preserving more of the tooth endoskeleton because of its minimal invasiveness and the technique requires less filling and soaking time for chemical agents, saving you up to 30 minutes depending on the complexity of the root canal structure.

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elexxion

OdoBleach for laser power bleaching with elexxion diode lasers

Elexxion, an established manufacturer of high-quality dental lasers that feature German technology and design, has just launched OdoBleach, a special new bleaching set. Used in combination with an elexxion diode laser, OdoBleach is the preferred choice for laser power bleaching. With OdoBleach, treatment can now be completed in only one single session, which of course results in a significant increase in productivity and practice revenue performance. OdoBleach contains titanium dioxide and hydrogen peroxide, and the combined effect is intensified by the use of an elexxion diode laser. OdoBleach is specifically developed to achieve optimal results with the wavelength of elexxion devices. This new bleaching technology means fast-acting treatment, no surface alteration, no hypersensitive reaction and exceptional economic efficiency. Each OdoBleach set includes a liquid dam and desensitization syringe, to give patients gleaming white teeth in a single session. That makes it easier to schedule appointments efficiently and calculate costs. All elexxion products are available through our regional distributors.



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