Digital camera designed exclusively for dental clinical photography and case documentation

By Shofu Dental Staff

A recipient of the Pride Institute’s 2015 “Best of Class” Technology Award, the EyeSpecial C-II is the first digital camera designed exclusively for dentistry.

Intended for predictable and consistent clinical photography, case documentation, lab collaboration and patient education, the EyeSpecial C-II achieves brilliant images with simplicity and convenience, according to Shofu.

Equipped with a high-quality sensor and unique FlashMatic module, a proprietary system of flashes and filters, this intelligent camera can demonstrate true-color reproduction and an exceptional depth-of-field range, the company asserts.

Like smartphones and tablets, the EyeSpecial C-II is designed to be highly intuitive and user friendly. It has eight pre-set dental shooting modes for efficient dental photography and features numerous smart functions that can enrich peer-to-peer and lab collaboration and patient education, according to the company.

For instance, the unique “isolate-shade mode” grays out the gingival part of an image to facilitate shade matching for both the lab technician and dentist.

The draw/edit function enables making notes on images, which can be an added value when discussing treatment options or progress, or when pointing out problematic areas in treatment modality.

For efficient visual communication, the LCD screen of the EyeSpecial C-II is larger than displays in typical smart phones and SLR cameras, and it can be operated with a gloved hand.

Thanks to the proliferation of HIPAA-compliant Bluetooth and wireless dental-office technologies, Shofu’s camera can wirelessly interconnect with other systems in the operatory and laboratory. A photograph captured with the EyeSpecial C-II can instantly appear on connected devices, including a desktop computer monitor, laptop or an iPad, turning a dental office or a laboratory into a communication hub.

Designed for comfort and functionality, the camera complies with stringent infection-control protocols, according to Shofu. It is water-, chemical- and scratch-resistant and can be swiftly disinfected with a wipe.

Packed with what Shofu asserts are intuitive, cutting-edge functions, the EyeSpecial C-II will help achieve the varied needs of a busy dental office or lab, whether it is the dentist, assistant or hygienist performing clinical photography, case documentation, lab collaboration or patient communication and education.

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*“Dental Equipment and Supplies Manufacturing in the U.S. and Its International Trade” Supplier Relations US, LLC, Irvine, CA, February, 2014.
NuSmile ZR zirconia pediatric crowns aim for the perfect balance of art and science

By NuSmile Staff

It would be hard to find a pediatric dentist anywhere who would disagree that zirconia crowns are an excellent choice for esthetic primary tooth full-coverage restorations.

NuSmile ZR preformed zirconia pediatric crowns offer clinicians and their patients numerous advantages relative to stainless-steel crowns and even other commonly used aesthetic options.

These advantages include:
- Ultimate durability compared with composite fillings or strip crowns.
- Natural-looking appearance.
- Biocompatibility.
- Prevention of plaque build-up, creating a favorable surface for gingival tissues.

As the founder and CEO of one of the largest and most respected manufacturers of pre-formed pediatric aesthetic crowns, Diane Johnson Krueger was adamant that her company’s NuSmile ZR zirconia crowns must do more than just offer these advantages; they must be clearly superior to any other primary zirconia crown in the market. By design, NuSmile ZR zirconia crowns were developed to reflect an unmatched emphasis on scientific evidence, and to be manufactured with a state-of-the-art, patent-pending manufacturing process, according to the company.

Monolithic zirconia ceramic: Nine times stronger than teeth

Made from high-grade monolithic zirconia ceramic, NuSmile ZR crowns exhibit a material strength that is nine times stronger than natural teeth. Their ultimate durability ensures that they will last until the tooth exfoliates without requiring any ongoing repairs.

NuSmile ZR crowns will not chip as pre-veneered stainless-steel crowns can do on occasion, and they will not discolor and break down over time like composites and strip crowns often do.

Exceptionally natural esthetics

NuSmile ZR zirconia crowns also offer the highest aesthetics to satisfy the most demanding clinicians and parents. The translucency of NuSmile’s zirconia ceramic has been optimized both to provide natural aesthetics and to prevent the problem of dark tooth show-through of pulped teeth, ensuring doctor and parent’s continued satisfaction with the restoration over time.

More and more parents and dental professionals are searching for materials that are biocompatible and health-promoting. There are numerous studies that confirm the high biocompatibility of zirconia ceramics, and as such, zirconia has long been used for all types of orthopedic and dental implants. Living tissues adapt to it extremely well. The tissue response and attachment is exceptional after NuSmile ZR crown placement, and plaque retention is also reduced.

In addition, the NuSmile ZR crown system features Try-In crowns for trial fitting and preparation refinement prior to cementation. Try-In crowns save critical chair time by eliminating extra steps. Importantly, Try-In crowns also prevent cementation-weakening saliva and blood contamination that can happen with all other zirconia crowns.

Reliable, durable, natural

“We know how important reliable, durable, natural-looking aesthetics and biocompatibility are to pediatric dentists and, even more so, to their patients’ parents,” said Krueger. “We have made it a priority to make our NuSmile ZR crowns all of these things plus easy to use and affordable, in order for them to experience the unique advantages of our pediatric zirconia crowns.”

Add bioactivity to your practice

Dentin replacement material made of purist calcium silicate

Septodont’s Biodentine™ is the only resin-free bioactive and biocompatible dentin replacement material that can be used in both the crown and the root.

It replaces dentin and saves pulp vitality with the following indications:
- Permanent dentin restorations;
- Deep cavities;
- Pulp capping;
- Apical lesions;
- Pulpotomy;
- Temporary enamel restoration;
- Root perforations;
- Pulpal floor perforations;
- Internal/external resorptions;
- Apexification and apical surger.

According to the company, there is no other single product on the market that can be used for all of these indications.

Extremely tight seals with adhesive systems

In addition to developing watertight interfaces with dentin, the calcium salts in Biodentine produce extremely tight seals with adhesive systems, making the material suitable for use as a base or liner under resin composite or an inlay/onlay.

With all of these indications, general practitioners, endodontists and pediatric dentists can all benefit from using Biodentine, according to the company.

Made from the purist form of calcium silicate, Biodentine does not stain teeth. It contains no metal impurities, as are present in “Portland” based cements.

As part of the chemical-setting reaction of Biodentine, calcium hydroxide is formed, initiating the healing response. (Clinical data is available from Septodont on this proven chemistry.)

In addition to treating damaged dentin, Biodentine provides other clinical benefits, including:
1) Higher compressive strength than dentin.
2) Similar flexural modulus as dentin.
3) High microleakage resistance.
4) Cuts like dentin.
5) No surface prep.

According to the company, the material’s tri-calcium silicate core enables the minerals in Biodentine to penetrate the dentin tubules, forming an extremely tight seal. Beyond its high dimensional stability, Biodentine also exhibits microleakage resistance, which minimizes post-operative sensitivity and reduces the risk of bacterial percolation.

The material’s high alkaline pH gives it antibacterial properties that help to protect the tooth from recurrent infections, the company reports.

Available in an economically priced 15-pack or an operatory five-pack, Biodentine is available through your authorized dental dealership.

(Source: Septodont)
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the smarter case approach

This new versatile system enables you to easily tailor case treatment and coordinate with restorative partners. Simply pair a mount-free implant with one of the treatment-specific prosthetic SMART PACKS. Both the implant and SMART PACK include the necessary components for that treatment phase — which means you not only know treatment costs upfront but can also practice more efficiently.

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New cordless headlight from Orascoptic

32,000-millilumen beam precisely focuses cool white light ideal for shade matching

Orascoptic™, a leader in vision solutions for dental and medical professionals, recently introduced the Spark™ — a cordless headlight that integrates with virtually any loupe or eyewear frame model.

Featuring an innovative, patent-pending design, the Spark dispenses weight evenly across the bridge of a frame, minimizing concentrated facial pressure. According to the company, capacitive touch controls enable the clinician to turn the headlight on and off with ease in between procedures and patient consultations.

Coaxially mounted to your loupe, Spark emits a precisely focused beam of 32,000 millilumens that uniformly illuminates the entire field of view, while also reducing shadowing in the operating area, the company reports.

Meets IEC blue-light standards
Maintaining compliance with blue-light testing standards set by the International Electrotechnical Commission (IEC), the cool white light of Spark delivers a highly effectual environment for shade matching.

Spark employs constant-current technology to ensure consistent light output throughout six hours of battery runtime. Additional features include a low-battery indicator that notifies the user when capacity is below 20 percent and a versatile micro USB charger for convenient charging on-the-go.

About KaVo Kerr Group
KaVo Kerr Group is a global portfolio of leading dental brands that share common values of "trust, experience, choices, quality and smart innovation," according to the company.

The organization’s many brands include KaVo™, Kerr™, i-CAT™, Gendex™, NOMAD™, DEXIS™, Instrumentarium™, SOREDEX™, Orascoptic, Pelton & Crane™, Marus™, Pentron™, Ormco™ and Implant Direct™. With more than 500 years of combined experience and proven solutions, KaVo Kerr Group uniquely serves 99 percent of all dental practices, the company asserts.

Visit www.kavokerrgroup.com for more information.
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DiaDent provides ‘a bulletproof way’ to seal root canals for treatment success

By DiaDent Staff

The purpose of obturating a root canal is to fill the space three-dimensionally to eliminate any gateways through which bacteria might enter. Thanks to DiaDent, dentists may now have a bulletproof way to seal root canals and help ensure treatment success. Studies indicate that using the warm compaction technique increases the chances that no voids will be left behind in the obturation process.

The EvoFill™ Duo obturation system, a new technology, was showcased in February at the Chicago Dental Society Midwinter Meeting.

While countless methods and techniques are available for root canal procedures, perhaps none is as easy, intuitive and time-saving as DiaDent’s complete obturation system, according to the company. With an innovative electric motor that prevents hand fatigue, EvoFill Duo offers fast heating and controlled gutta-percha extrusion with precise 3-D fills and reliable results. Both units can be fully charged within 90 minutes.

Warm, vertical compaction

EvoPack™ is a cordless, warm, vertical-compaction device. It effectively and tightly compacts and seals all canals, including lateral canals. After a canal has been shaped and cleaned, a master cone is selected for a snug fit and tug back. EvoPack is then used to cut, soften, downpack and compact the root canal filling material.

An LED-light-guided condenser provides users a clear view inside the oral cavity. Color-coded pen tips are available in five sizes, including XF, F, FM, M and ML. Its quick-heating tip reaches a high level of temperature of 2,500 degrees within one second to save treatment time. Three levels of temperature and two heating-time settings give users full control of any procedure.

Hygienic, one-time-use gutta-percha cartridges

EvoFill is a motorized, cordless, obturation system that extrudes warm gutta-percha to backfill unfilled portions of the canal. The motorized mechanism helps prevent users from experiencing hand fatigue. EvoFill uses hygienic, one-time-use gutta-percha cartridges to deliver fast, precise and direct injection of softened gutta-percha into the root canal. The tips can be bent to the desired shape and angle using the multipurpose wrench provided. The clear GP window displays the amount of gutta-percha available in the cartridge.

With the new disposable fast-loading gutta-percha cartridge, there is no messy, tedious cleanup, according to the company. EvoFill has three variable temperature settings to provide precise control of obturation flow. The preheating function quickly softens the gutta-percha when device temperature is low.

For sale in Canada in July

Detailed instructional and introductory videos can be viewed on DiaDent’s website at www.diadent.com. EvoFill Duo will be ready for sale in Canada in July 2016. A brochure and demo unit can be requested.

In addition to being here at the Pacific Dental Conference in booth No. 1529, DiaDent will be exhibiting at the AADE meeting in San Francisco, April 6–8, in booth No. 807, and at the California Dental Association Meeting in Anaheim, May 12–14, in booth No. 1284. For more product details and company information, you can call (877) 342-3368.

DiaDent offers fast heating and controlled gutta-percha extrusion with precise 3-D fills and reliable results.

C.E. from page 4

to help combat muscle imbalances that typically plague seated workers. The long-term goal is to re-educate the core and maintain proper working posture. Caruso specializes in manual therapy and orthopedics, specifically neuromusculoskeletal disorders. He has worked extensively with dental professionals since 1988 in ergonomics, injury prevention, productivity, exercise and wellness. The workshop is cosponsored by Posture Perfect Solutions, and participants will receive an Evolution Chair.

• Epstein returns Saturday morning with “Early detection of oral potentially malignant disorders: diagnosis and management.” from 9 to 11:30. Many of the issues surrounding screenings will be presented, including recent calls to “decrease the rhetoric” in oncology, in terms of the mantra of early detection. Early detection of potentially malignant disorders is a goal but screening must be evaluated in terms of common or rare conditions, the population to be studied and the potential outcomes of the procedure/technology used. Also discussed will be the challenge of the limited options to approach management of potentially malignant disorders.

Be sure to consult the PDC app or the newest “Conference at a Glance” to identify your best strategy for pursuing any of the many educational opportunities available through Saturday.

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Be sure to consult the PDC app or the newest “Conference at a Glance” to identify your best strategy for pursuing any of the many educational opportunities available through Saturday.
Planmeca Romexis® software offers the most sophisticated tools to meet the needs of modern patient care. With tools such as an Implant Library featuring realistic models from over 40 different manufacturers or Airway Visualization with Ultra-Low Dose, the most sophisticated tools are just a few mouse clicks away.
Non-surgical laser therapy improves patients’ sleep-disordered breathing

By Harvey S. Shiffman, DDS

Of the commercially available hard- and soft-tissue lasers, only the Light Walker (Fotona, San Clemente, Calif.) combines two proven wavelengths, Nd:YAG and Er:YAG, with unrivaled power and precise pulse control resulting in high levels of efficacy for a wide range of procedures. With this advanced level of performance comes significant patient comfort. The protocol described here has been developed to take advantage of these attributes. Snoring and sleep disordered breathing affect millions of Americans, both adults and children. The signs and symptoms are the result of partial or complete collapse of the upper airway during sleep. The structural involvement may include the soft palate, uvula and the base of the tongue. The goal of the treatment is to decrease the amount of blockage of the upper airway. Dentists are in a great position to help screen and in many cases treat these problems with airway management. Helping patients improve their health, quality of life and the well being of their loved ones. The “Gold Standard” for the treatment of sleep disordered breathing is the CPAP type device. Following patients improve their sleep can profoundly improve their health, quality of life and the well being of their loved ones.

The NIGHTLASE protocol or about laser therapy. However, the NIGHTLASE therapy represents a less-invasive alternative to current surgical, chemical or radiosurgical options that may require hospitalization, general anesthesia or soft-tissue removal.

NIGHTLASE has a significant success rate in producing a positive change in sleep patterns. Research published by Miracki and Vysintin has shown that it can reduce and attenuate snoring, and provides an effective non-invasive modality to lessen the effects of obstructive sleep apnea. As with any treatment, there are potential risks with laser treatment. However, the risks are minimal and certainly less than alternative therapies if the protocol is followed correctly.

NIGHTLASE is not a permanent alteration and lasts anywhere from six to 12 months and is easily touched up at follow up appointments. It is easily touched up at follow up appointments.

In 2013 we completed a pilot study that addressed only snoring with 12 patients. Twelve-month follow-up showed a 30–90 percent reduction in snoring tone and volume. The lower percentages were smokers, obese patients and those with severe OSA. Follow-up studies with polysomnography using HST are in progress, as are pharyngometer studies, both of which have recorded significant positive changes.

A recently published pilot research study by Lee and Lee has shown through 3-D CT imaging the volumetric positive changes after NIGHTLASE treatment to help support the clinical results, and the authors have follow up studies with 3-D CT, polysomnography and a larger group of patients in process.

We are excited to present these modern, minimally invasive and more natural treatment modalities to the dental community. Using the Light Walker laser, we can now have another tool in our dental toolbox and offer our patients health improvements that reach beyond restorative and rehabilitative dentistry.

If the reader is curious about using the NIGHTLASE protocol or about laser dentistry in general, you can contact the manufacturer for more information. As always, we recommend a good variety of advanced educational programs in dental sleep medicine to see where NIGHTLASE might fit into your patients’ treatment protocols.

References


About the author

Harvey Shiffman, DDS, is in general practice at the Laser Dental Center in Boynton Beach, Fla. He is a graduate of George-town University School of Dentistry and completed a general practice residency at Georgetown University Medical Center, with an emphasis on treating medically compromised patients. He also completed certification with the Academy of Laser Dentistry (ALD) in three laser systems and recently earned ALD fellowship. Shiffman is an instructor for the Academy of Clinical Technology and recently lectured on laser dentistry at the Yankee Dental Congress and the Greater New York Dental Meeting. He is also an adjunct professor in the prosthetics department of Nova Southeastern College of Dental Medicine and is responsible for the development of a dental laser educational program for undergraduates and dental graduate students.