Red & White Aesthetic Harmony

By Shofu

Beautifil II Enamel and GINGIVA from Shofu are developed as a complementary line extension of Beautifil II to create life-like direct resin restorations. A special one-push syringe ensures controlled dispensing of the smooth and creamy material that is easy to sculpt into fine details and recreate the surface textures seen in natural teeth & gum.

Inclusion specially modified multi-functional organic fillers and nano-fillers impart Beautifil II Enamel and GINGIVA with exceptional handling characteristics, longer working time, high abrasion/wear resistance, stable shades, effortless and superior polish with sustained polish retention on the restoration surface.

Beautifil II Enamel is available in 4 natural shade variations of pink fluorine benefits and anti-plaque effect on the restoration surface. Beautifil II GINGIVA is available in 5 natural shade variations of pink gingiva with exceptional handling characteristics, longer working time, high abrasion/wear resistance, stable shades, effortless and superior polish with sustained polish retention on the gingiva.

Beautifil II Enamel and GINGIVA are developed as a complementary line extension of Beautifil II to create life-like direct resin restorations. A special one-push syringe ensures controlled dispensing of the smooth and creamy material that is easy to sculpt into fine details and recreate the surface textures seen in natural teeth & gum.

TRIOS scans most accurate and consistent

3Shape’s intra-oral scanner TRIOS delivered the most accurate results when compared with other leading scanning systems in a recent study. (Photograph: 3Shape)

The study, which was conducted jointly by the University of Maryland in Baltimore and the University of Freiburg in Germany, aimed to compare the accuracy of the ability of intra-oral scanning systems of different brands to accurately scan a single molar abutment in vitro. The analyses included the following six scanners: iTero (Align Technology), 3M True Definition (3M ESPE), PlanScan (Planmeca), CS 3500 (Carestream Dental), TRIOS and CEREC AC Omnicam (Sirona Dental Systems).

In order to compare the accuracy of each system, the investigators used an industrial-grade, highly accurate reference scanner to create a digital reference dataset for an acrylic dental model. A single trained, experienced dentist then scanned the acrylic model on three separate occasions using each of the six intra-oral scanning systems.

The study found 3Shape’s TRIOS to be both the most accurate and consistent performer of the scanners tested. In 3D comparisons then performed of 18 datasets, the results obtained do not provide any information about the quality of a fabricated restoration based on these digital datasets, the researchers stressed. Moreover, in an in vivo design, the outcomes might be different owing to the presence of blood, saliva, and patient movements, they concluded.

Of the 18 datasets analysed, the smallest deviations for the trueness measurements (± standard deviation) between the reference dataset and the various intra-oral scanner datasets were obtained from TRIOS (6.9 ± 0.9 µm), followed by CS 3500 (9.8 ± 0.8 µm), iTero (9.8 ± 2.5 µm), 3M True Definition (10.3 ± 0.9 µm), PlanScan (12.0 ± 10.8 µm) and CEREC AC Omnicam (14.2 ± 7.1 µm).

“TRIOS scanning technology, in combination with the wand design, seems to be beneficial for capturing high quality datasets with excellent trueness and precision values,” the investigators said.

However, the results obtained do not provide any information about the quality of a fabricated restoration based on these digital datasets, the researchers stressed. Moreover, in an in vivo design, the outcomes might be different owing to the presence of blood, saliva, and patient movements, they concluded.

The study, titled ‘Evaluation of the accuracy of six intra-oral scanning devices: An in-vitro investigation’, was published in Volume 02, Issue 4, of the ADA Professional Product Review.
SIDEXIS 4 update gives users many new functions and technical improvements

By Dentsply Sirona

Improving performance, integrating SICAT Suite or connecting an external camera: the software update gives users many new functions. With a new SQL server compatibility with Windows 10 and other operating systems, the technical functions have also been expanded.

At the end of last year, the SIDEXIS 4 imaging software received the internationally renowned Red Dot Award Best of the Best in the “Communication Design” category for its outstanding user friendliness. The new 4.1.3 software update from Dentsply Sirona Imaging now combines additional functions for users with technical modifications that further optimize the practice workflow. Especially in combination with the ORTHOPHOS SL, the SIDEXIS 4 software forms a highly functional and efficient unit. The update also offers advantages for networking with practice management systems and implantology planning or orthodontic analysis programs.

New functions make it easier to use

The software update now makes it possible to connect intraoral cameras from other manufacturers, as well as via Windows Driver Model. When imported images without an imaging date are provided, the user can enter the information manually to have the images displayed chronologically in the timeline. The update also provides additional image information: The anatomical region and external image type are displayed for every image. To facilitate work for users, it will now be possible to use copy and paste to insert images into another application, such as image processing or patient management. The program also allows images to be moved retroactively to allocate them to another patient.

No more switching between SICAT Suite applications

The integration of the SICAT Suite software package with the SICAT Function and SICAT AIR applications into the SIDEXIS 4 interface represents a considerable added value for users. SICAT Function allows the three-dimensional visualization of jaw movements for the diagnosis and treatment of craniofacial dysfunction (CMD). Users can use SICAT Air to order protrusion appliances to treat obstructive sleep apnea. Planning data created by the two software applications are displayed in the timeline and from there can be opened again directly in the SICAT Suite. The package is integrated into the phase bar of SIDEXIS 4 with its own “Plan&Treat Phase.” The applications can therefore be selected directly and treatment planning can be started. The loading times for the required 3D image data were reduced by 50 percent.

SIDEXIS 4 – state-of-the-art technology

The technical aspects of the SIDEXIS 4.1.3 software were expanded to Windows 10 and other operating systems. Instead of the previously used SQL Server 2008 R2 database management system, the SQL Server 2014 is now installed both during initial installation of SIDEXIS 4 and in the case of an update.

Fig. 1: With SIDEXIS 4.1.3 images can be allocated to another patient.

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