Press Release

Seamless integration of hardware and software – Sirona puts its systems expertise to the test

Sirona is like no other company in the dental industry in its linking different digital systems together – take CEREC, for example. Here you will find digital impressions, 3D X-ray, implant dentistry, orthodontics and prosthetics - for even greater safety in treatment and patient comfort. At IDS 2015, Sirona is demonstrating these exciting new applications.

Bensheim/Salzburg, 10.03.2015. The networking of systems, the integration of functions that otherwise would require external devices – a dentist's practice benefits from all of these in many ways. Procedures become simpler and can be better controlled, safety and quality improve through the repeatability of processes, and the value of work created within the individual practice is increased. When it comes to the use of digital systems in dental practice, the question today is no longer whether the digital workflow can be implemented in practice, but how it can be used most effectively.

CEREC - The completely integrated system

CEREC is an example of implementation of this concept. It starts with the digital impression by the CEREC Omnicam, the smallest propellant-free, working color video camera on the market, now available in a desktop version called CEREC AF. Next comes the design of the restoration with the new CEREC SW 4.4, which integrates the application of Biojaw. It develops outstanding initial proposals on the basis of the entire scanned area. Immediate benefits include great naturalness even below the equatorial plane of the tooth with hardly any rework necessary. The preparation of the planned restoration with three different CEREC grinding machines completes the system.

The integration of CEREC is particularly evident in implantology. Both the data from the impression and from the X-ray software are collected by the CEREC software and processed further here - for the production of a drilling template (CEREC Guide 2) and for the design and manufacture of the superstructure. The software then also controls the grinding and milling machine. This means that not only is the care of a patient planned with CEREC, but the entire process can be completely carried out. The practitioner retains full control of the process at all times.

CEREC Ortho SW 1.1 is a new application for orthodontic treatment. The CEREC Omnicam uses a safely completed scan to create a digital model of the entire arch. The data can then be used to plan orthodontic treatments and to prepare any required equipment.
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X-ray software that sets standards

A particularly striking example of integration is the new SIDEXIS 4 x-ray software. It ensures that all radiographs can be studied, regardless of whether they are 2D or 3D or both simultaneously. For this, neither the window nor the program must be changed. It is now much easier to find footage and treatment history. It can also draw cross-comparisons, such as a comparison of intra-oral images of SiroCam AF with 3D images. The numerous interfaces also allow for integration of SIDEXIS 4 into other systems, such as in practice management or in the TENO treatment center.

With the SICAT function, integration is carried to its logical conclusion, merging diagnostic patient information from the 3D X-ray with a Jaw Motion Tracker (Sicat JMT+) and the optical impression (CEREC).

The new support arm system for treatment units

The Sirona treatment units have developed into a highly integrated digital system. New options make TENO real "Endo-experts". For the first time the reciprocal filing systems of VDW (RECIPROC®) and Dentsply Maillefer (WAVEONE®) are integrated into the library file of the treatment unit. This new feature will also be displayed on the TENO user interface and can be controlled easily via the foot switch on the unit. The TENO treatment center can also be equipped with an implant function and has an efficient hygiene system.

The newly introduced arm system combines other systems, such as the intraoral x-ray source HELIODENTplus and the 22'' HD-monitor SIVISION, directly with the treatment unit. The new system fits into the overall picture of a treatment unit. It allows easy cleaning because of its smooth surfaces made of high quality material is ergonomic in design and is extremely easy to handle.

Due to various certification and registration periods, not all products are immediately available in all countries.

Sirona at IDS 2015
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IMAGES

Fig. 1: CEREC is a prime example of the consistent implementation of networking. From the propellant-free impression to the grinding of the restoration, CEREC offers a complete digital workflow.

Fig. 2: The new support arm system blends in elegantly with the overall appearance of the treatment center.

Fig. 3: In the light box, both 2D and 3D images as well as camera recordings and Facescan data can be compared side by side.

Fig. 4: CEREC AF: The smallest propellant-free working color video camera in the world is now available in a desktop version known as CEREC AF.