An industry-first solution from Planmeca: Imaging, CAD/CAM and dental units in one software

Planmeca Romexis® is the first software in the world to combine 2-D and 3-D imaging, CAD/CAM work and dental unit information. This pioneering, all-in-one software solution brings together all the devices at a dental clinic, improving time and cost efficiency and enabling new kinds of data combinations.

Planmeca’s revolutionary Planmeca Romexis® software solution is a unique, all-in-one concept for dental clinics of all sizes. It offers a vast selection of features designed for the needs of different specialists. Besides supporting the most versatile range of 2-D and 3-D imaging modalities, the software integrates the entire chairside CAD/CAM workflow from intraoral scanning to prosthetic designing and milling. In addition, the Mac OS- and Windows-compatible software offers valuable, real-time information on dental and X-ray unit usage for clinic monitoring purposes. To complete the all-in-one user experience, the Planmeca iRomexis™ mobile application allows easy access to patient images from any location.

Thanks to the unique integration of imaging and CAD/CAM, all patient images, ranging from intraoral scans to CBCT images, are stored in one centralized database and are conveniently available through the same user interface. This enables new kinds of 3-D data combinations for different diagnostic and treatment planning needs.

In Planmeca Romexis, intraoral scans acquired with Planmeca PlanScan® — the world’s first dental unit integrated intraoral scanner — can be combined with CBCT images acquired with Planmeca ProMax® 3-D imaging units. The combination of CBCT and STL data provides an artifact-free model of the patient’s dentition, including crowns, soft tissue and bone. This virtual 3-D patient provides valuable information, for example, for implant planning and other diagnostic needs.

For a completely digital chairside CAD/CAM workflow, the dentist can design restorations with the Planmeca PlanCAD® Easy design software, which is also part of Planmeca Romexis. The software can be used to design crowns, inlays, onlays, veneers and small bridges. The completed design can then be sent to the Planmeca PlanMill® 40 milling unit for quick and accurate chairside milling. Alternatively, the open STL data produced by Planmeca PlanScan can be sent to a lab digitally through Planmeca Romexis Cloud, a secure image transfer service for Planmeca Romexis users and their partners.

“Thanks to Planmeca’s completely open CAD/CAM system and all-in-one software, the transfer of patient information, 2-D X-rays, CBCT images and digital impressions between a clinic and a dental lab has never been so easy,” says Helianna Puhlin-Nurminen, vice president of the Digital Imaging and Applications division of Planmeca. “The unique combination of CBCT and CAD/CAM can also be used for other diagnostic purposes besides planning restorative treatments and implant cases. For example, the digital model replaces traditional gypsum models and can be used for orthodontic treatment planning and analysis and for designing custom orthodontic appliances.”