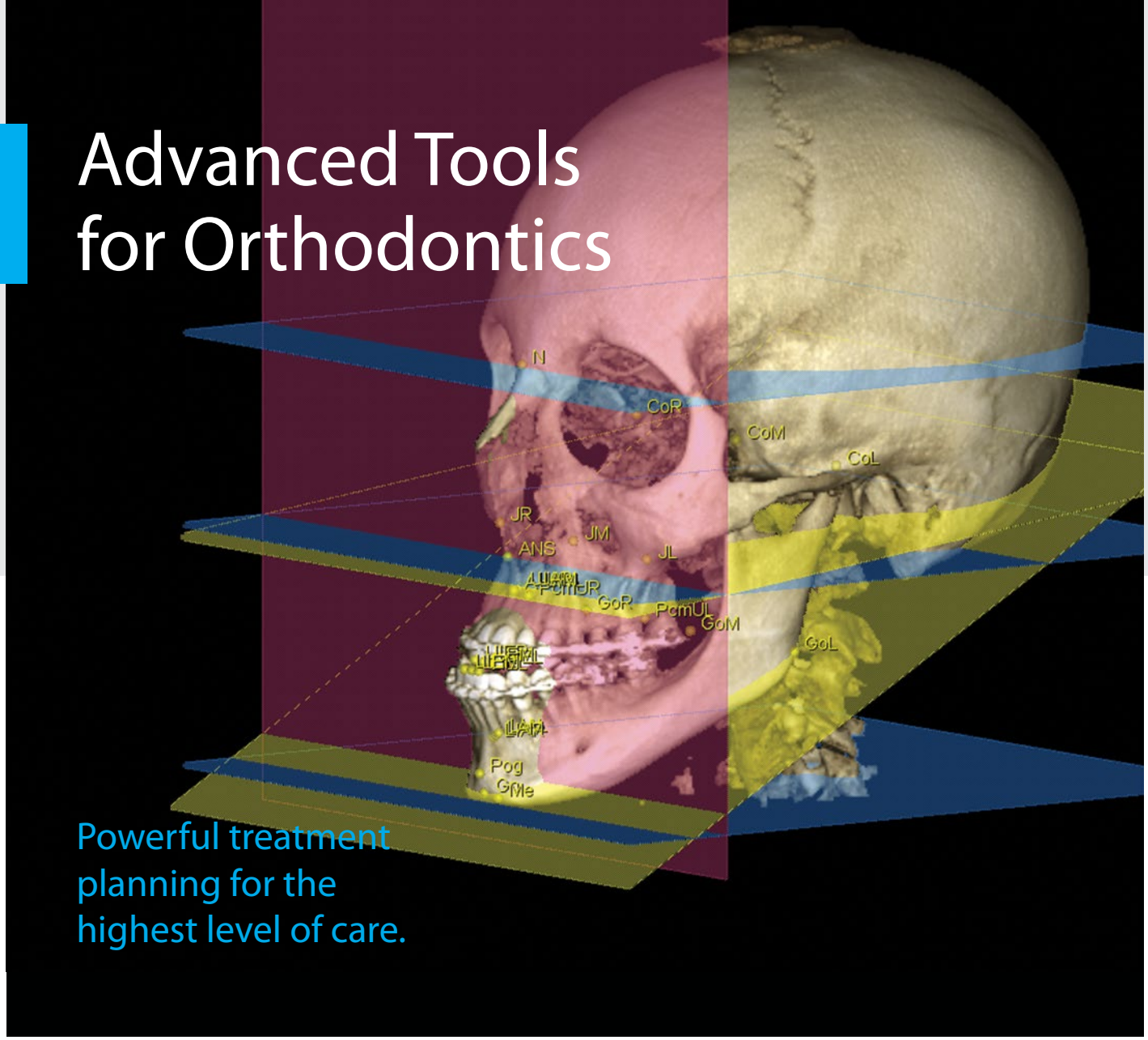
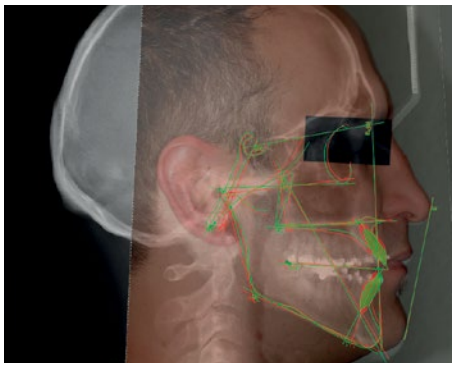
Advanced Tools for Orthodontics



Powerful treatment planning for the highest level of care.



PLANMECA

Solutions for Every Orthodontic Practice

Planmeca offers a complete solution for all your orthodontic needs. It begins with accurate full-arch, digital impresssions combined with gold-standard, extraoral 2D, 3D and cephalometric imaging. All this technology is powered by a single software solution, Planmeca Romexis®.

Full Arch Scan

Panoramic

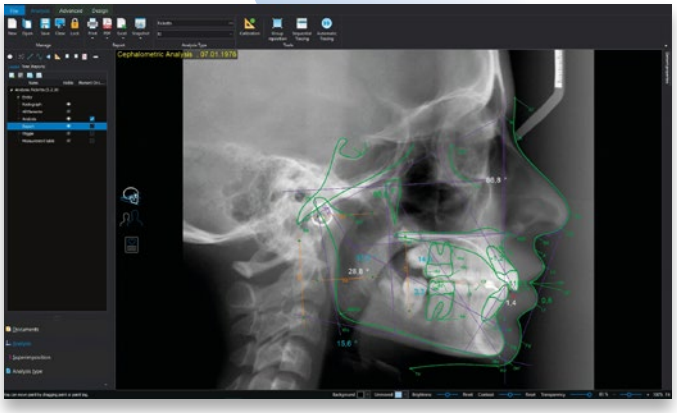
Cephalometric

CBCT Image

3D Facial Photo

3D Model Scan

Romexis 6
makes your work flow



Planmeca Large Field-of-View 3D Imaging Systems

Planmeca offers several CBCT imaging systems ideally suited for the orthodontic community. These 3D systems offer large field-of-views and advanced features to elevate your treatment planning and help you deliver optimal results.

Planmeca Viso® G7

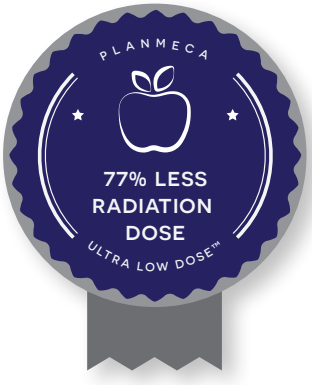
Planmeca ProMax® 3D Mid

CBCT Applications for Orthodontics

- Visualization of impacted teeth
- Assessment of an unerupted tooth position
- Identification of root resorption and orientation
- Visualization of supernumerary teeth
- Evaluation of boundary conditions
- Cleft palate patients
- TMJ, airways and more

Planmeca Ultra Low Dose™

Pioneering low dose 3D imaging



Planmeca 3D units offer a unique Planmeca Ultra Low Dose imaging protocol that enables CBCT imaging with an even lower patient radiation dose than standard 2D panoramic imaging.

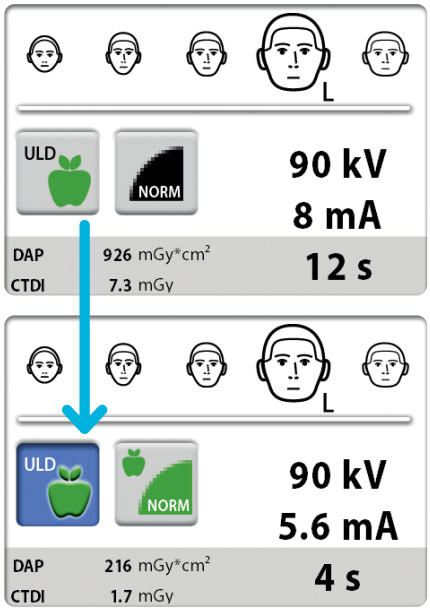
Planmeca Ultra Low Dose protocol reduces the effective patient dose by an average of 77% without a statistical reduction in image quality[1].

Six studies have validated low patient radiation while also maintaining diagnostic image quality.

Ideal for Many Clinical Cases

The Planmeca Ultra Low Dose protocol has proven to be ideal for:

- Orthodontics
  - Patient records
  - Defining the amount of bone around the root
  - Localizing unerupted and impacted teeth before orthodontic treatment
  - Identifying orthodontic landmarks for cephalometric analysis
- Post-operative and follow-up images in maxillofacial surgery
- Airway studies
- Sinus studies

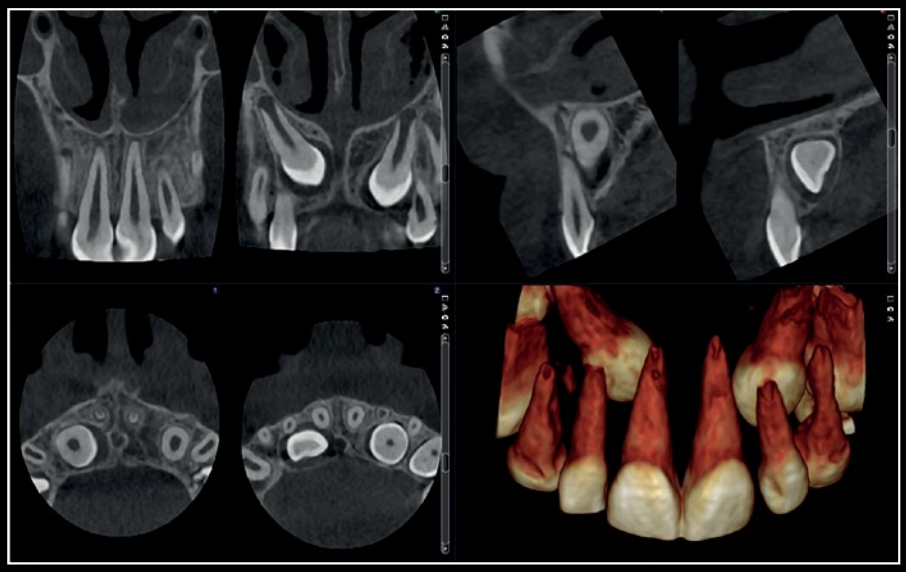


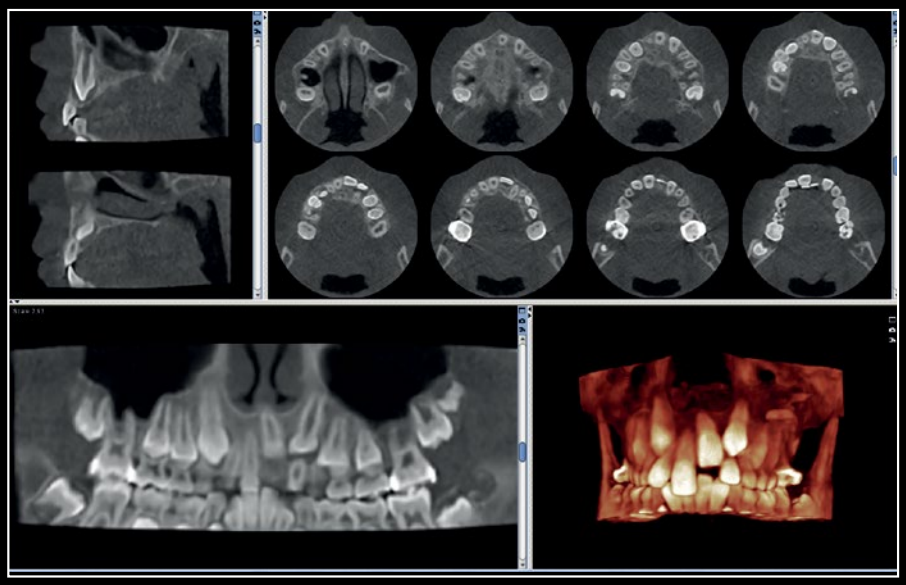
[1]Study of Orthodontic Diagnostic FOVs Using Low Dose CBCT protocol on Planmeca ProMax® units (Ludlow, John Barrett and Koivisto, Juha).

Learn more about Planmeca Ultra Low Dose technology

"When you adopt CBCT, you can diagnose, plan, and treat your patients at a higher standard of care. You also gain the ability for you—as a clinician—to improve yourself. Everybody wins! More information, with less radiaiton…it is simply amazing!"

Dr. Jay Burton on Planmeca CBCT imaging with Ultra Low Dose™ Technology





ULD:
only
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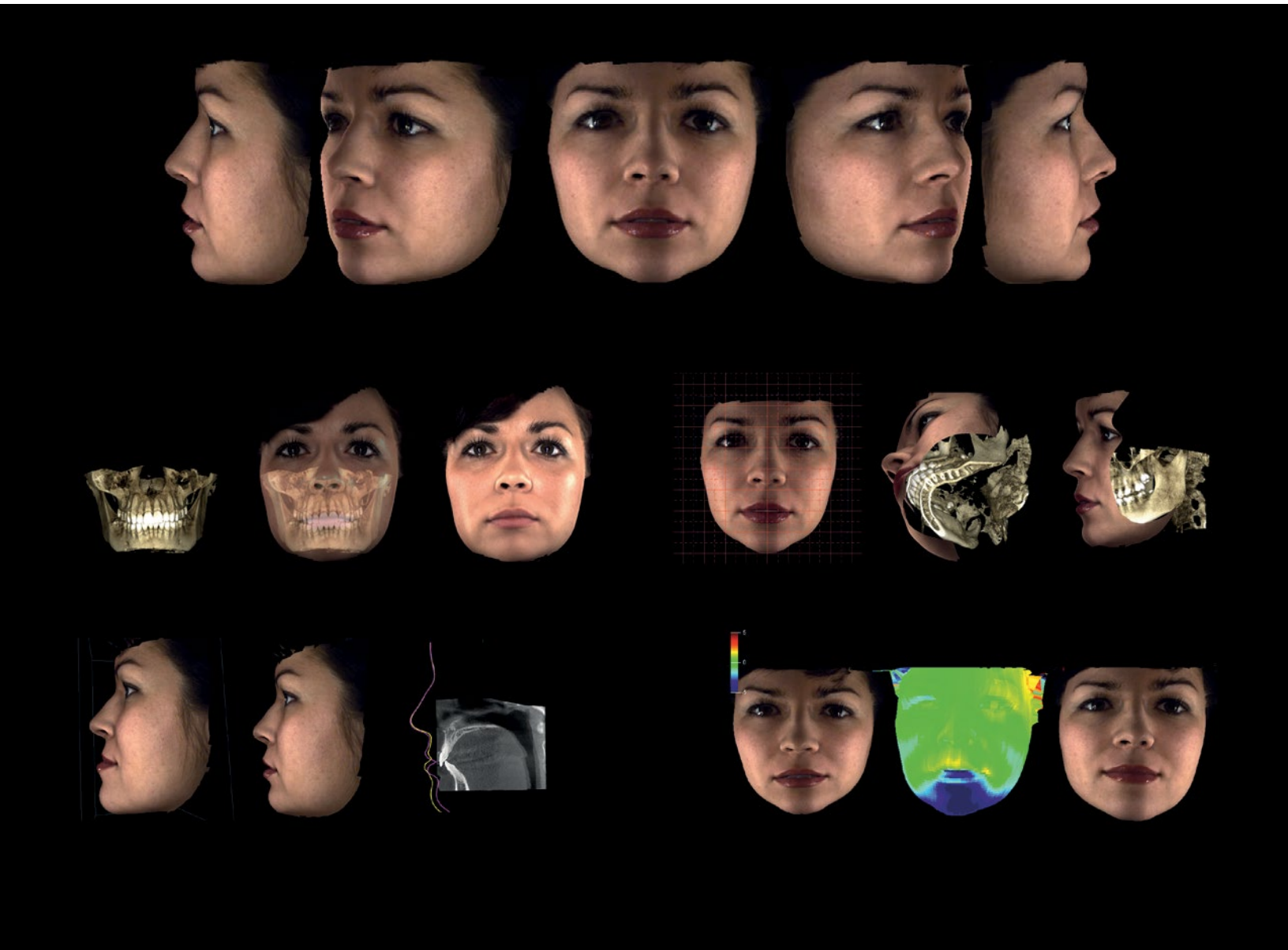
Planmeca ProFace®

Planmeca ProFace is a unique 3D face photo system available for all of our large field-of-view CBCT X-ray units. The realistic 3D photo—acquired with or without a CBCT image—is a highly effective tool for orthodontic treatment planning and radiation-free follow-up imaging.

Orthodontic Applications

- Patient education and documentation
- Treatment follow-up
- Before and after comparisons
- Facial symmetry analysis
- Automatic generation of 2D orthodontic facial views from the 3D photo
- Evaluation of bone/soft tissue relation
- 100% radiation-free 3D photo

First X-ray integrated face camera

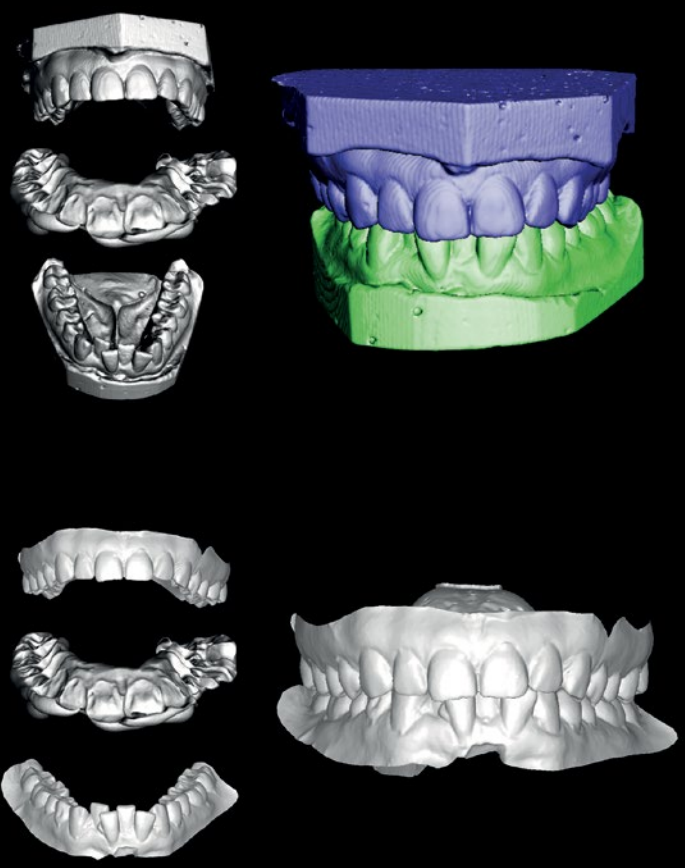


3D Model Scanning

You can use all units in the Planmeca ProMax® 3D and Planmeca Viso® lines to scan both impressions and plaster casts. The digitized models are immediately available and stored in the Planmeca Romexis software for orthodontic analysis and treatment planning. Scanned 3D models can be superimposed onto CBCT data for full diagnostic information.

Left: Scanning a plaster cast to a digital model.

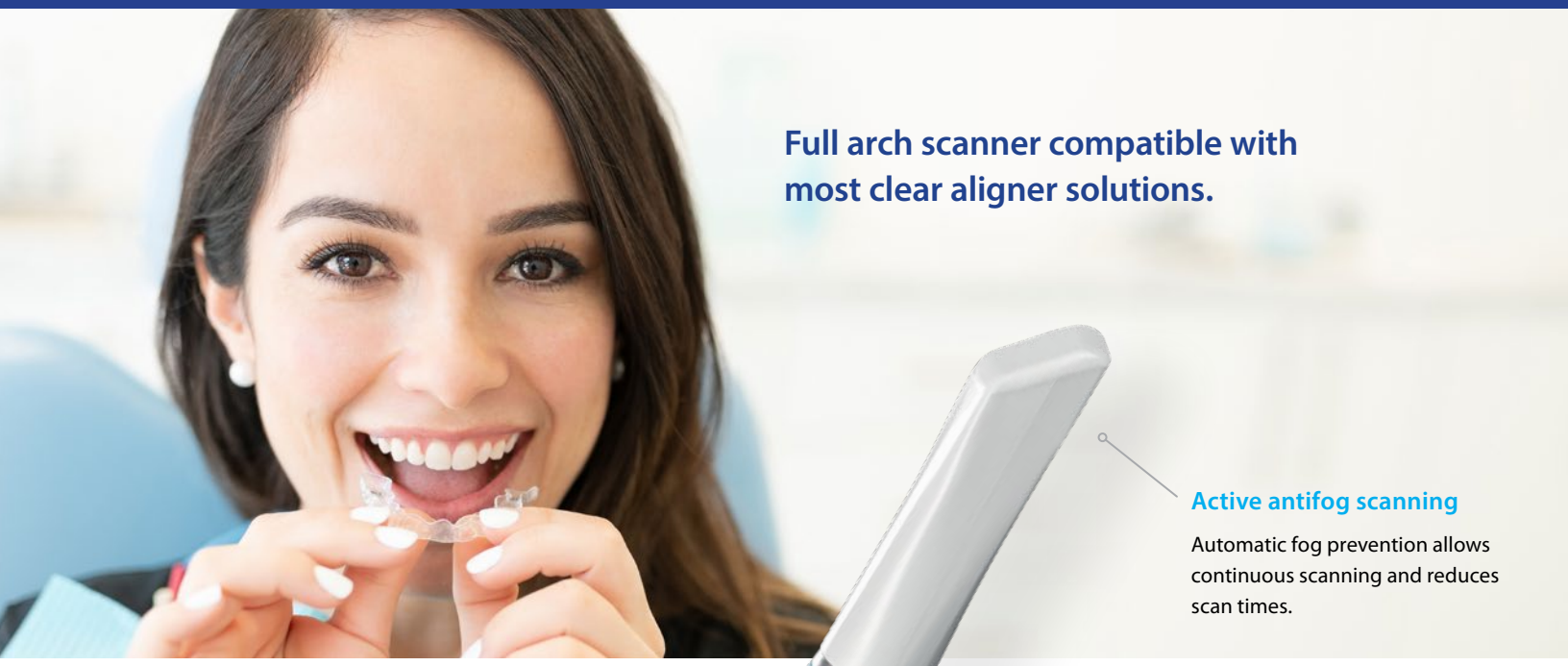
Right: Scanning an impression to a digital model.



Planmeca Emerald™ S

The Planmeca Emerald S intraoral scanner is ideal for full-arch scanning. Using advanced optics and enhanced algorithms, it delivers superior accuracy and warp-speed image capture in one lightweight, easy-to-use unit. Built on an open architecture system, Planmeca Emerald S can be fully integrated with your current dental equipment or software, allowing for a simple and integrated workflow.

RATED TOP 3 BEST Scanners for Accuracy [2]



Full arch scanner compatible with most clear aligner solutions.

Active antifog scanning

Automatic fog prevention allows continuous scanning and reduces scan times.

Hygienic hands-free operation

The scanner's two buttons allows the scanning software to be operated without touching a mouse or keyboard. The dental unit integrated scanner can also be controlled from a foot pedal.

Autoclavable tips

Provides confidence in infection control and sterilization.

Compact and lightweight

Ergonomically designed body to fit easily into your hand for more control while capturing images and to reduce user fatigue.

Superior accuracy with outstanding speed

Capture images at warp-speed with a richer and more vivid color palette.

Easy to share

Plug and play capability allows effortless sharing between operatories and laptops.

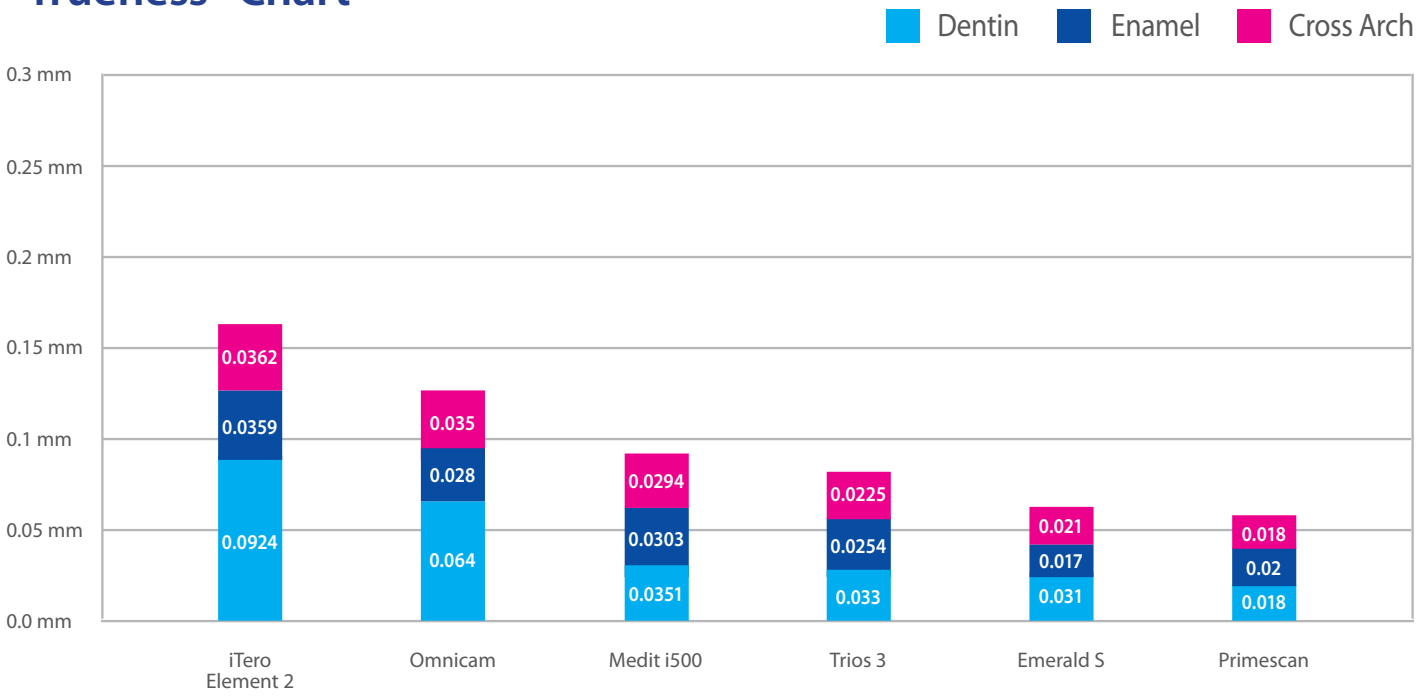
Replaceable cord

Keeps the scanner operating continually by swapping out the component that receives the most wear.

Accuracy

According to a recent study published in the Journal of Quintessence International[2], the Planmeca Emerald S was rated a top tier scanner for complete arch trueness and precision, making it an ideal option for quadrant based restorative dentistry as well as full arch scanning for clear aligners, orthodontics, sleep, and implantology.

"Trueness" Chart



Different Tips for Different Needs

Standard tip

The Standard scanning tip is the perfect tool for performing general intraoral scanning.

SlimLine tip

The SlimLine tip is thinner, an ideal choice for scanning patients with smaller mouths, allowing the operator to reach posterior teeth and capture interproximal areas.

2. Vág J, Renne W, Revell G, Ludlow M, Mennito A, Teich ST, Gutmacher Z. The effect of software updates on the trueness and precision of intraoral scanners. Quintessence Int. 2021 Mar 22;0(0):0. doi: 10.3290/j.qi.b1098315. Epub ahead of print. PMID: 33749223.

Planmeca ProMax® 2D

Intelligent 2D imaging for all your orthodontic needs

Planmeca ProMax 2D is a complete maxillofacial imaging system. It provides world-leading extraoral imaging with its unique design details and excellent image quality. This system has won Dentaltown's Townie Choice award and Orthotown's Townie choice award for best in class imaging multiple years.

- Instant and precise 2D imaging with upgradeability to 3D X-ray unit
- Widest selection of imaging programs: panoramic, cephalometric, bitewing, TMJ, and tomography
- Dedicated collimation options for pediatric imaging

Advanced one-shot cephalostat

Two cephalostat options available for Planmeca ProMax 2D and 3D units

Scanning Planmeca ProMax cephalostat

Exceptional flexibility in image formats, with field sizes of up to 30 x 27 cm

One-shot Planmeca ProCeph™ cephalostat

Image sizes from 18 x 20 cm to 30 x 25 cm

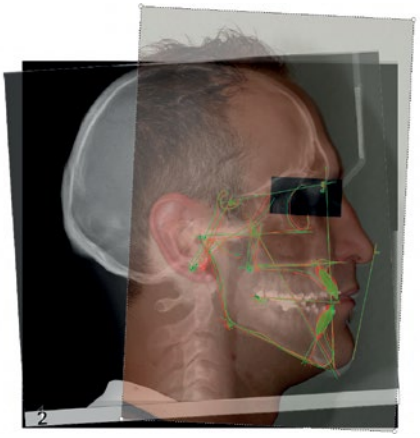
*Planmeca ProCeph is the only cephalometric option for Planmeca Viso.

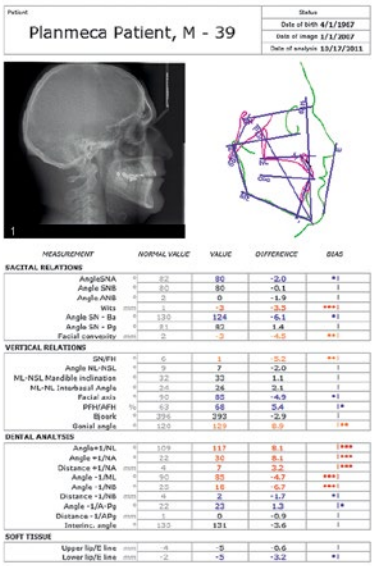
Planmeca Romexis®
Cephalometric Analysis

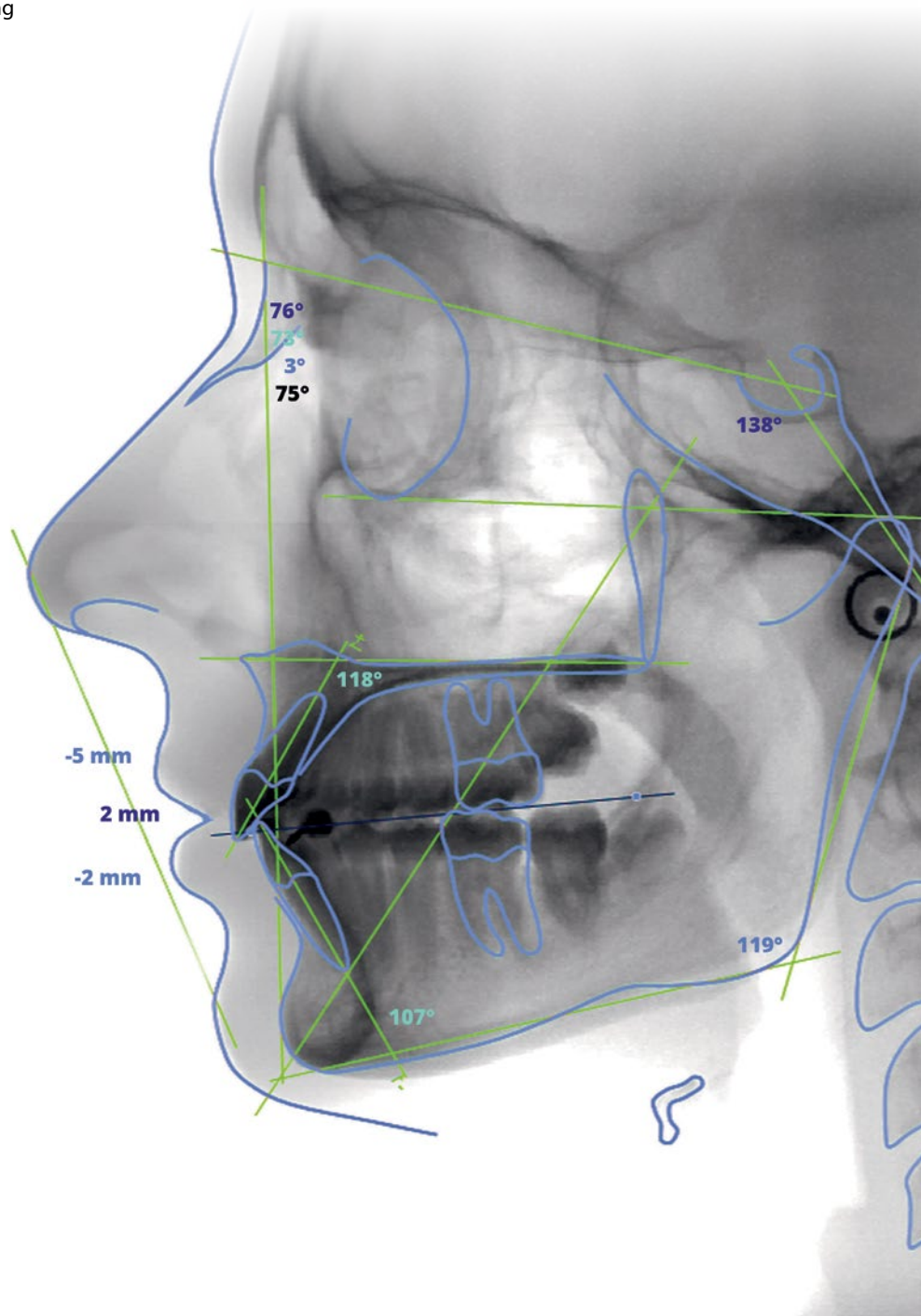
Advanced tools for accurate analysis

The Planmeca Romexis Cephalometric Analysis module offers a complete set of tools for orthodontic treatment planning and for creating cephalometric analyses and superimpositions. It provides flexible and easy-to-use features for quick and efficient processing of even the most demanding cases in orthodontics, general dentistry and maxillofacial surgery.

- Powerful tool for treatment planning (VTO), creating cephalometric analyses (lateral, frontal and arch), and superimpositions
- Automatic lateral and soft tissue tracing
- Customizable analyses, standard values, reports, exports and user interface
- Supported on the Windows operating system



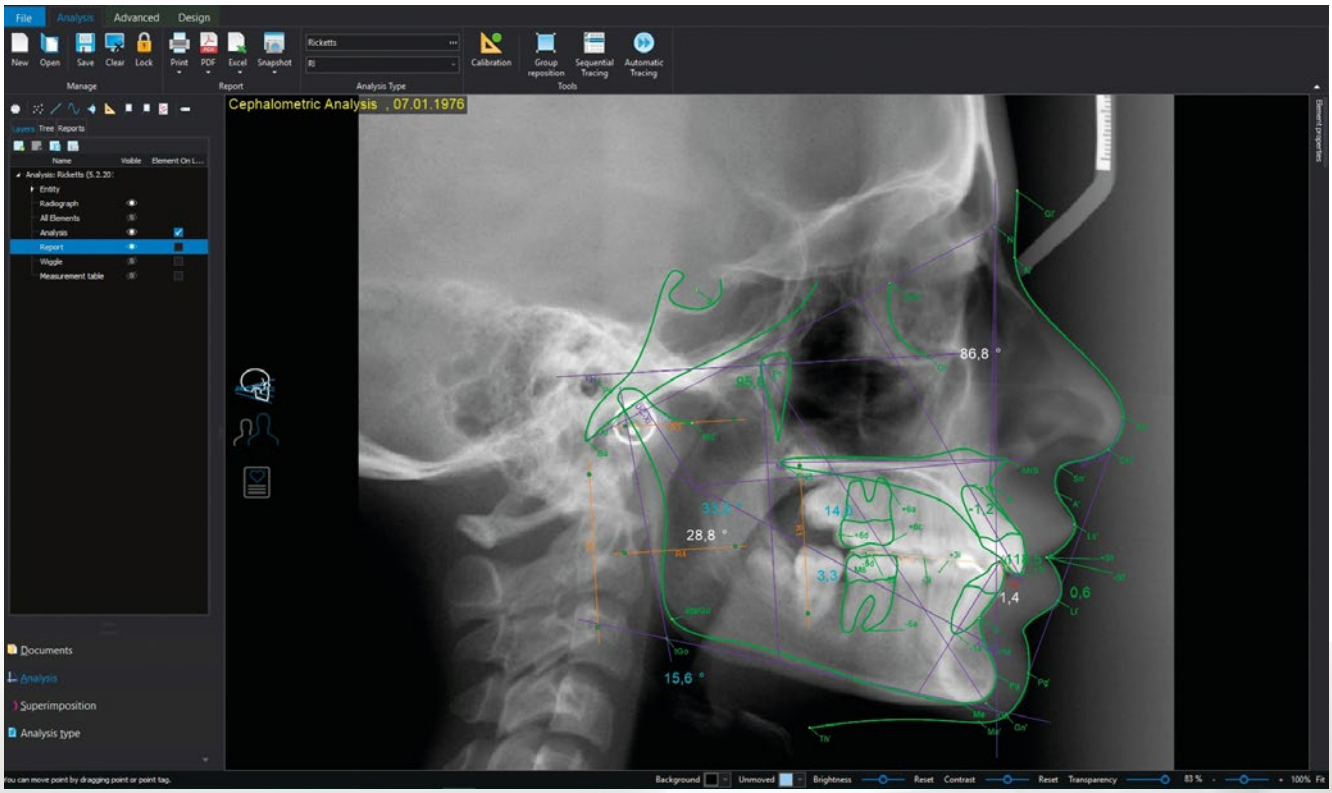




Online Automatic Analysis Service

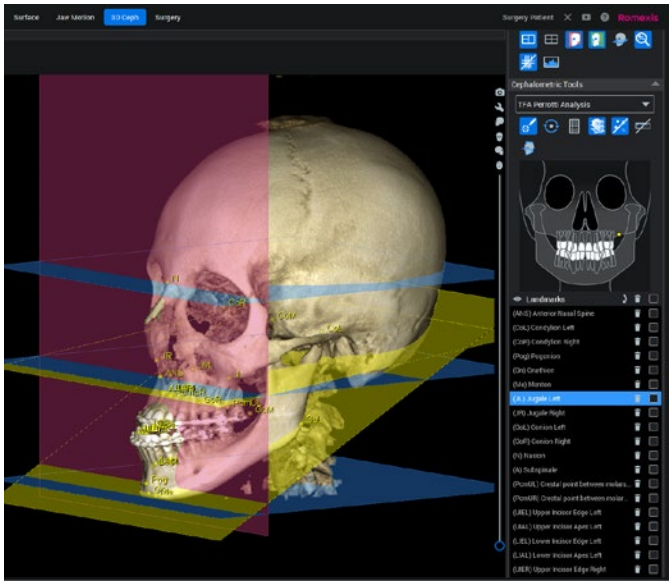
Acquire cephalometric analyses regardless of time and place with the Planmeca Romexis automatic cephalometric analysis service.

- Online automatic cephalometric tracing in a few seconds
- Over 50 analyses available for download immediately after tracing
- Direct link from the Planmeca Romexis 2D module for ordering analyses



3D Cephalometry

The Planmeca Romexis 3D Cephalometry software module is the leading-edge tool for performing orthodontic analysis using CBCT images. The intuitive and easy tracing of anatomical landmarks as well as the clear visual representation of measurements and analyses make the module perfect for anyone interested in entering the world of 3D analyses in orthodontics. The software provides benefits for orthodontists, general dentists, and maxillofacial surgeons.



Performing assisted analysis

The placing of anatomical landmarks is done intuitively in 3D rendering and on 2D views. The orientation of the skull is automatically adjusted for the next landmark to be placed. The reference images help the user to find the right position for each landmark.

True 3D analysis

Romexis 3D Cephalometry includes a true 3D analysis type, Total Face Approach (TFA), created by Dr. Giovanna Perrotti. The analysis provides a distinct graphical representation of the case using 3D planes to provide information on the vertical and sagittal dimensions, skeletal symmetry, teeth, and growth.

Dynamic measurements

The analysis measurements can be viewed dynamically during the landmark placement. The patient-specific measurement values are enriched by colors indicating any deviations from the norm. The textual interpretation of measurement values is also provided.

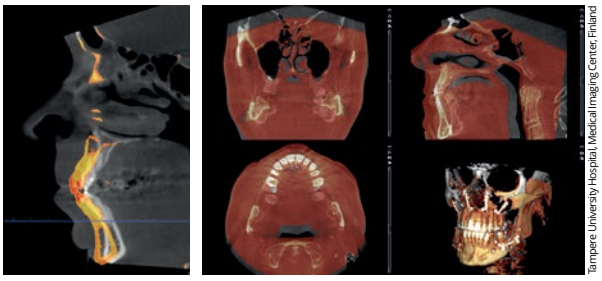
Planmeca Romexis®

World-leading imaging software

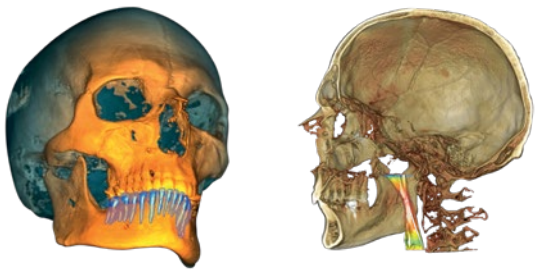
Planmeca Romexis is an advanced, easy-to-use software providing a rich set of tools to meet the requirements set by any dental facility—from a small clinic to a large hospital. It supports the most versatile range of 2D, 3D, CAD/CAM, and more in a single image browser. Its connectivity with Planmeca equipment make workflows more efficient.

Advanced features

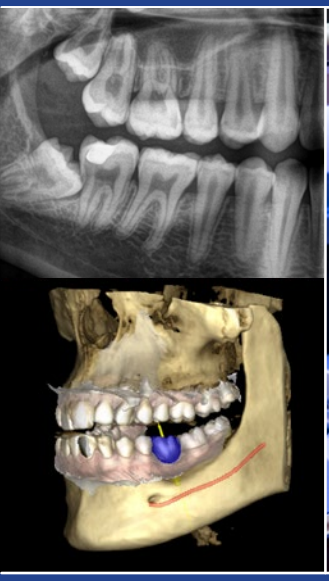
- The most comprehensive imaging software for 3D and 2D imaging, supporting:
  - CBCT images, 3D photos, STL surface data
  - Panoramic, cephalometric and intraoral images and photos
- Superimposing before and after CBCT images
- Segmenting teeth from CBCT data and utilizing them in treatment planning
- Visualizing and measuring airways
- Creating a virtual cephalometric image from a CBCT image
- Mac and Windows support

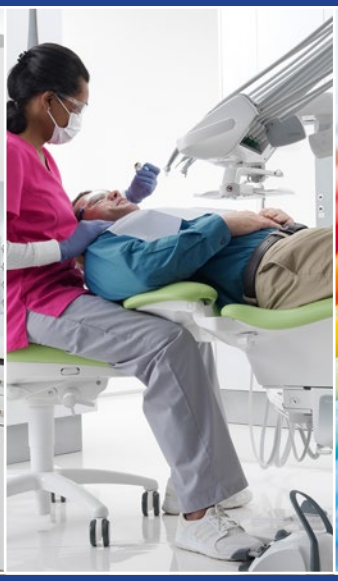


Tampere University Hospital, Medical Imaging Center, Finland



2D/3D Imaging | CAD/CAM | Cabinetry | Dental Units | Hand Instruments





At Planmeca, we do things differently. We are in a unique position as one of the largest, privately owned dental manufacturers in the world. It means we set our own priorities. Our Finnish-based research and development team collaborate with industry thought leaders around the globe to reach higher and bring superior products to the dental space.

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