

A COMPLETE SOLUTION FOR DIGITAL DENTISTRY



Better care through innovation

An introduction from our President

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“It’s my pleasure to introduce you to our revolutionary all-in-one concept. We offer dental clinics a completely digital solution, based on the capability to network all digital dental equipment with one software platform. **Planmeca Romexis®** integrates all our digital dental units, 2D and 3D imaging devices and CAD/CAM solutions. This brings unforeseen possibilities for diagnostics, patient treatment and clinic management.

Dentistry will be completely digital in the future, and the possibilities introduced by 3D technology will transform the entire field. Our CAD/CAM solutions together with our advanced 3D combinations offer a new and innovative way to take your clinic to a high-tech level.

I’m extremely proud of our product innovations, and for already half a century we’ve worked closely with dental professionals to set new standards in our field. What makes us a bit different is that all core product development and manufacturing takes place in Finland – ensuring exceptional quality and unmatched attention to detail at every stage of the process.

As a privately owned company, we are in control of our own destiny and able to make the long term R&D commitments that are the driving force behind our innovations. I firmly believe that this dedication to continuous development enables us to offer the most inspiring working environment for dental professionals worldwide.”

Heikki Kyöstiä
 President and founder
 Planmeca Group



An intelligent all-in-one solution

Planmeca provides a complete solution for digital dentistry, designed for an efficient workflow and better patient care. All Planmeca dental units, imaging devices and CAD/CAM solutions can be networked with one software platform to improve the daily efficiency of your clinic.

All devices and software from one place

Planmeca provides your clinic with everything you need – from world-leading dental care and imaging units to innovative CAD/CAM and software solutions. All our devices and software are designed for exceptional ease of use, offering dental clinics a smooth and effortless transition to the world of digital dentistry.

Networked devices – one software

All Planmeca dental units, imaging devices and CAD/CAM solutions can be networked with one software platform. This intelligent all-in-one solution allows clinics to generate valuable data on their digital equipment – allowing them to optimise their workflow and fully concentrate on patient care.



Key benefits

- Planmeca's all in one concept – dental units, CAD/CAM solutions, imaging devices, infection control and clinic management solutions all brought together with one comprehensive software platform
- Significant cost-savings with centralised software, quality assurance and preventive maintenance
- A future-proof concept – a platform-based solution with excellent upgradeability



3D imaging – high image quality at an optimal patient dose

*When you need detailed information, CBCT imaging is the best way to see it all.
Discover our innovative range of 3D units and enjoy high CBCT image quality
– always at an optimal patient dose.*



Planmeca ProMax® 3D family



Planmeca Viso™ family

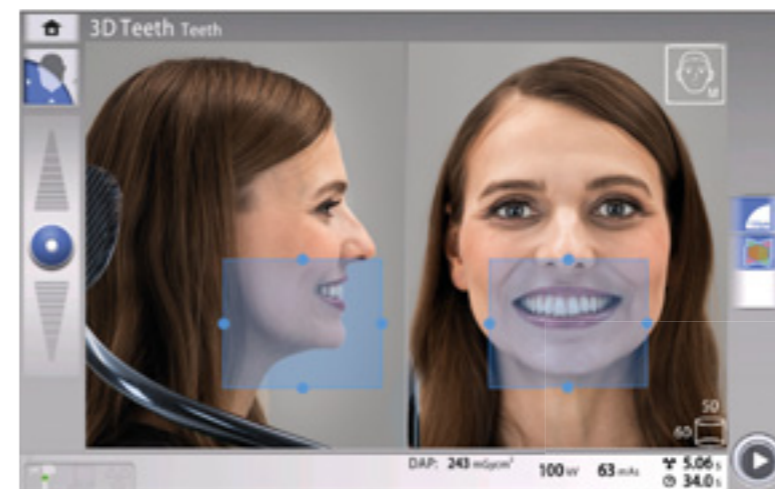
Planmeca Viso™ family

The next generation has arrived

Planmeca Viso™ is an ideal combination of premium image quality and high-end usability. It possesses all the qualities of a world class CBCT unit – and more. The unit is an impressive step forward in the evolution of cone beam imaging. It fulfils the needs of demanding maxillofacial imaging in all clinical environments, from private clinics to large hospitals.



	G5	G7
Maximum volume with a single scan	Ø200 x 100 mm	Ø300 x 190 mm
Maximum volume with multiple vertical scans	Ø200 x 170 mm	Ø300 x 300 mm
Planmeca CALM™ movement artefact correction	✓	✓
Planmeca Ultra Low Dose™ imaging	✓	✓
Tube voltage 120 kV	✓	✓
Endodontic mode	✓	✓
3D dental programs	✓	✓
3D ENT programs	✓	✓
3D face photo	✓	✓
3D models scan	✓	✓
4D jaw motion	✓	✓
2D panoramic imaging	✓	✓
Cephalometric imaging, one-shot	✓	✓



Live virtual FOV positioning

Patient positioning is done directly from the CBCT unit's control panel utilising integrated cameras and a live patient view. Users can freely adjust the size and location of the FOV with the tip of their fingers.

FOV size and location can still be readjusted on the scout view.

Freely adjustable volume

Planmeca Viso™ offers a wide volume selection to cover all clinical needs – from single tooth to full skull imaging. The volume size can be adjusted freely. The unit's remarkable 3D sensor is also fully capable of 2D imaging.

Planmeca ProFace® photos with 4 integrated cameras

Planmeca Viso introduces a new way of capturing Planmeca ProFace® facial photos. The unit's sensor has four built-in cameras and LED light strips for capturing highly detailed 3D photographs. They can be combined with model scans of patients to enrich 3D treatment plans.

Planmeca PlanID™ connectivity

With integrated RFID connectivity, Planmeca Viso opens up new possibilities for patient and user identification.

Intelligent patient support

The unit's occipital support provides stability without compromising patient comfort.



Planmeca Viso™ G5



Planmeca Viso™ G7

Planmeca Viso™ CBCT imaging unit family consists of two models – both offering exceptional image quality, numerous cutting-edge features, and premium usability.

Planmeca ProMax® 3D family

True all-in-one units for all your imaging needs

Planmeca ProMax® 3D is a product family consisting of exceptional all-in-one units. With three different types of three-dimensional imaging – as well as panoramic, extraoral bitewing and cephalometric imaging – these intelligent products can meet all your maxillofacial imaging needs.



Planmeca ProMax® 3D s



Planmeca ProMax® 3D Classic



Planmeca ProMax® 3D Plus



Planmeca ProMax® 3D Mid

	3D s	3D Classic	3D Plus	3D Mid
Planmeca CALM™ movement artefact correction	✓	✓	✓	✓
Planmeca Ultra Low Dose™ imaging	✓	✓	✓	✓
Tube voltage option 120 kV			✓	✓
Endodontic mode	✓	✓	✓	✓
3D dental programs	✓	✓	✓	✓
3D ENT programs			✓	✓
3D face photo	✓	✓	✓	✓
3D models scan	✓	✓	✓	✓
Suresmile certification		✓		✓
4D jaw motion				✓
2D panoramic imaging	✓	✓	✓	✓
Cephalometric imaging, scanning	✓	✓	✓	✓
Cephalometric imaging, one-shot	✓	✓	✓	✓

	3D s	3D Classic	3D Plus	3D Mid
Maximum volume with a single scan	Ø50 x 80 mm or Ø80 x 50 mm	Ø80 x 80 mm	Ø200 x 100 mm	Ø200 x 100 mm
Extended volume with a single scan		Ø110 x 80 mm		
Maximum volume with multiple horizontal scans	150 x 100 x 50 mm	150 x 100 x 80 mm		
Maximum volume with multiple vertical scans				Ø200 x 170 mm

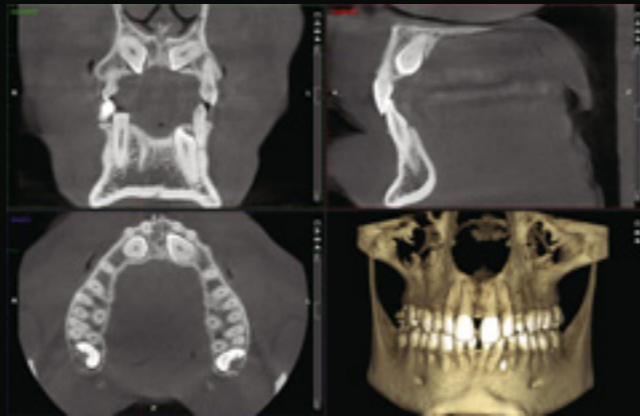
Unique 3D combination – an industry first

We're the first company to combine three different types of 3D data with one X-ray unit. Our 3D family brings together a Cone Beam Computed Tomography (CBCT) image, 3D face photo and 3D model scan into one 3D image – using the same advanced software. This 3D combination creates a virtual patient in 3D, helping you with all your clinical needs.



3D X-ray image

Cone Beam Computed Tomography (CBCT) is an X-ray imaging technology where a large number of 2D images are taken of a patient from different angles. A 3D volumetric image is then calculated from these 2D projections. The resulting images can be viewed with our advanced imaging software from any angle, including the axial, coronal, sagittal and cross-sectional planes.



3D face photo

Planmeca ProFace® is an exclusive 3D face photo system available for all of our 3D X-ray units. This pioneering integrated system produces a realistic 3D face photo and CBCT image in a single imaging session. You can also take a separate 3D face photo without exposing your patient to any radiation.



3D model scan

You can use all of our 3D X-ray units to scan both impressions and plaster casts – an exciting feature that was an industry first for our CBCT units. With our advanced Planmeca Romexis® software, the digitised models are available immediately and stored for later use.



See more than ever before



Intelligent solutions for the best image quality

Our intelligent high-tech solutions and algorithms guarantee an ideal imaging geometry, perfect usability, and crystal-clear images free from noise and artefacts.

SCARA technology

The precise, free-flowing, computer-controlled SCARA (*Selectively Compliant Articulated Robot Arm*) arm construction can produce any movement pattern required. This enables accurate and reliable volume positioning and volume diameter adjustment, reducing the amount of radiation your patients are exposed to.



120 kV tube voltage

120 kV tube voltage enables optimised image quality for challenging targets – reducing artefacts and ensuring higher contrast images.

Optimised imaging modes for different needs

- **Low dose mode** captures an image with a minimal dose of radiation. Ideally suited for orthodontic, pediatric and sinus studies. Voxel size 400 or 600 μm
- **Normal mode** is the best choice for most common imaging needs. Voxel size 200 μm
- **High definition mode** is designed for imaging of small objects, such as ear bones. Voxel size 150 μm
- **Braces protocol** offers optimised exposure settings for imaging patients with brackets. Voxel size 150 μm
- **High resolution** provides more detail when necessary. Voxel size 100 μm
- **Endodontic mode** offers the best resolution with the smallest size. Voxel size 75 μm

Certified by OraMetrix
suressmile
to be sure.



Never miss a shot with Planmeca CBCT units

Movement, metal artefacts, and small voxel sizes are generally recognised as challenges to CBCT image quality. With Planmeca CBCT units and their advanced image enhancement options, you can rise above these concerns and succeed every time. The options can either be selected preventively before imaging or utilised afterwards to achieve reliable results. The choice is yours!

Movement artefact correction with Planmeca CALM™

Planmeca CALM™

- Iterative movement correction algorithm
- Eliminates the need for retakes
- Cancels the effects of patient movement
- Excellent when imaging more lively patients



Without movement artefact correction

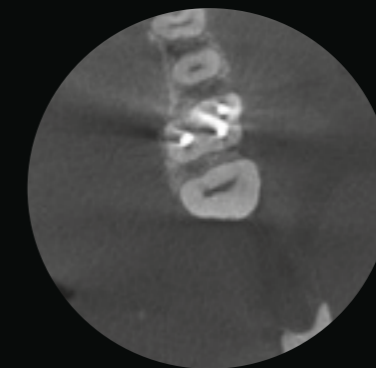


With the Planmeca CALM™ movement removal algorithm

Metal artefact reduction with Planmeca ARA™

Planmeca ARA™

- Reliable algorithm for artefact-free images
- Removes shadows and streaks caused by metal restorations and root fillings
- Tried and tested – the results of extensive scientific research



Without artefact removal

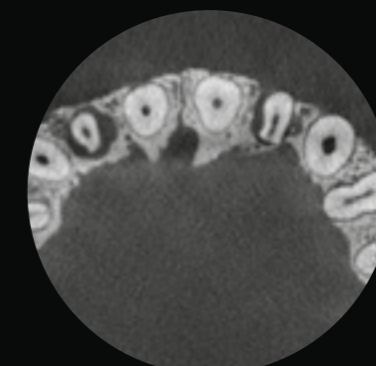


With the Planmeca ARA™ artefact removal algorithm

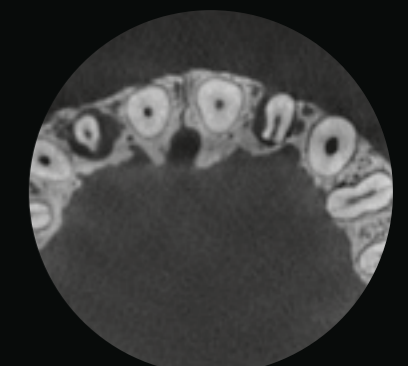
Noise removal with Planmeca AINO™

Planmeca AINO™

- Noise-free images without losing valuable details
- Allows lower exposure values by reducing noise
- Improves image quality when using small voxel sizes (e.g. in the endodontic imaging mode)
- Enabled by default when using the Planmeca Ultra Low Dose™ imaging protocol



Without noise removal



With the Planmeca AINO™ noise filter

Pioneering low dose 3D imaging

Our 3D X-ray 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.

More information, less radiation

Planmeca Ultra Low Dose™ can be used with all voxel sizes and in all imaging modes from Normal to Endodontic mode. Using the Planmeca Ultra Low Dose protocol reduces the effective patient dose by an average of 77% without a statistical reduction in image quality*.

The unique and pioneering imaging protocol is based on intelligent 3D algorithms developed by Planmeca. Our 3D imaging system always allows the clinician to choose the optimal balance between image quality and dose, based on the ALARA principle.

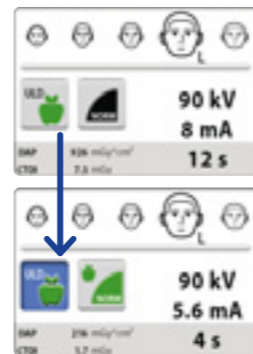
* Study of Orthodontic Diagnostic FOVs Using Low Dose CBCT protocol (Ludlow, John Barrett and Koivisto, Juha).

planmeca.com/ULD-poster

Ideal for many clinical cases

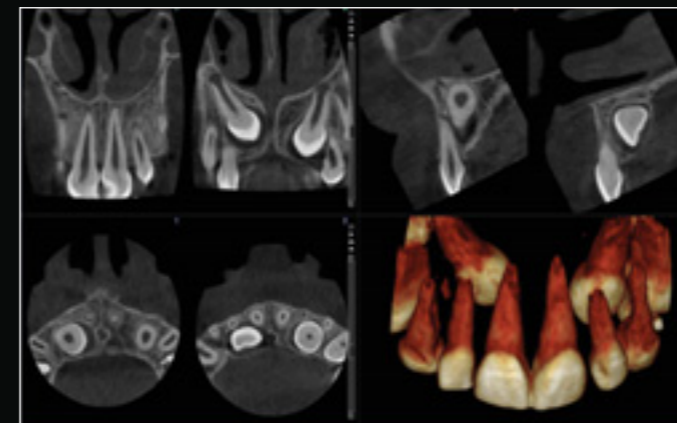
The Planmeca Ultra Low Dose protocol has proven to be ideal for many clinical cases.

- Orthodontics:
 - Defining the amount of bone around the root
 - Localising unerupted and impacted teeth before orthodontic treatment
 - Defining orthodontic landmarks for cephalometric analysis
- Post-operative and follow-up images in maxillofacial surgery
- Airway studies
- Sinus studies
- Implant planning



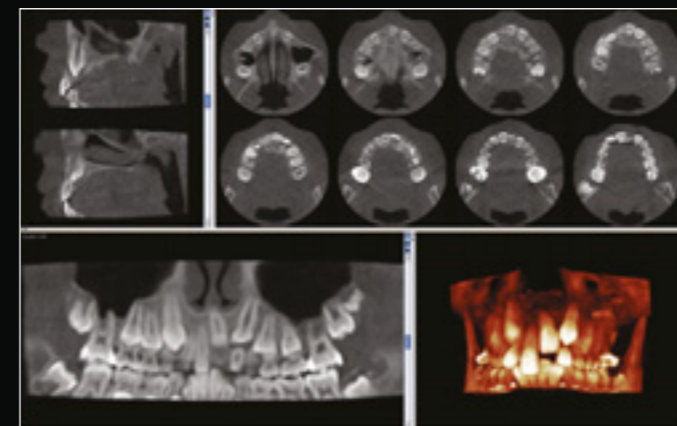
Planmeca ProMax® 3D Mid

- FOV Ø 200 x 170 mm / Voxel size 600 µm
- Effective patient dose 14.7 µSv



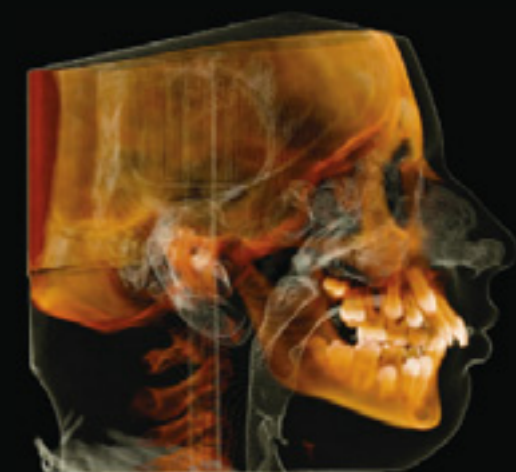
Planmeca ProMax® 3D Classic

- FOV Ø 40 x 50 mm / Voxel size 150 µm
- Effective patient dose 14.4 µSv



Planmeca ProMax® 3D Mid

- FOV Ø 85 x 50 mm / Voxel size 400 µm
- Effective patient dose 4.0 µSv



Planmeca ProMax® 3D Mid

- FOV Ø 200 x 170 mm / Voxel size 600 µm
- Effective patient dose 29.2 µSv

The Planmeca Ultra Low Dose™ protocol has changed 3D imaging completely

We at MESANTIS® 3D DENTAL-RADIOLOGICUM produce about 7,500 CBCT images per year at eight locations in Germany.

Our main concern in X-ray imaging is to reduce the possible radiation dose as much as is reasonably achievable (ALARA principle). Traditional digital 2D X-rays at an orthodontist's clinic usually have an effective dose ranging between 26–35 µSv (ICRP 2007). Conventional CBCT images of the head with modern CBCT equipment show an effective dose ranging between 49–90 µSv.

The latest image protocol with a specific associated algorithm is called the **Planmeca Ultra Low Dose™** protocol. In medical terms, it allows radiologists to adjust imaging parameters individually according to the clinical needs of each case. The mA-values, in particular, can be individually adjusted and reduced for each patient, as it is required according to all international scientific guidelines. Therefore, it is possible to further reduce the effective dose

significantly by using the Planmeca Ultra Low Dose protocol. Depending on the field of view, nowadays CBCT equipment with a Planmeca Ultra Low Dose algorithm has an effective dose between 4 to 22 or 10 to 36 µSv.

Our patients and referring colleagues are always happy to hear that the effective dose for certain indications is now even lower than in traditional 2D X-ray imaging. Since last year we have been able to replace the common CBCT protocols with the Planmeca Ultra Low Dose protocol.

At MESANTIS® 3D DENTAL-RADIOLOGICUM in Germany, the Planmeca Ultra Low Dose imaging protocol is used either with a small or large field of view. Using the new protocol, a lot of patients can benefit from improved 3D diagnostics without being exposed to a higher radiation dose.

Prof. Dr. Axel Bumann

Prof. Dr. Bumann states that he has not received any financial reward or other benefit for this interview.



Prof. Dr. Axel Bumann
DDS, PhD, Orthodontist,
Oral surgeon, Oral and
Maxillofacial Radiology,
MESANTIS® 3D
DENTAL-RADIOLOGICUM

Ease of operation

Our 3D X-ray units are known across the world for incredible ease of use and exceptional patient comfort. A relaxed patient means a smooth imaging workflow and the best quality images.



User-friendly Planmeca ProTouch™ control panel

- Clear and straightforward graphical user interface guides you smoothly through the work process
- Pre-programmed sites and exposure values for different image types and targets save you time and allow you to focus on your patients
- The control panel can also be operated remotely from the imaging workstation



2D and 3D imaging with one sensor

Our advanced imaging system uses the same sensor for both 2D and 3D imaging, allowing you to enjoy a hassle-free workflow. The unique Autofocus feature enables practically error-free patient positioning and reduces the need for retakes. The result is high-quality and easily reproducible images – every time.

Open patient positioning

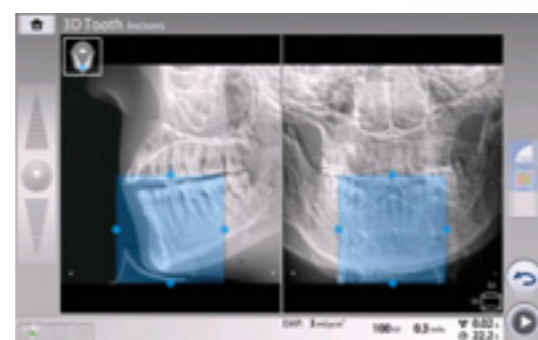
- Effortless positioning with open-face architecture
- Unrestricted view of your patient
- No claustrophobic feeling for your patient
- Fine adjustment using positioning lasers and joystick
- Verify correct positioning with a scout image
- Easy wheelchair accommodation with side-entry access

Easy imaging with ready-designed protocols

- Imaging protocols designed for specific diagnostic tasks, areas, or target sizes
- Appropriate volume size, resolution, and exposure values
- Automatic selection and adjustment of the target position
- Reduced volume sizes for child patients to prevent unnecessary radiation

Scout images for easy positioning

Scout images and 2D views help positioning and can even be used for preliminary diagnosis.



Industry-leading 2D X-ray units

Explore our world-class range of 2D imaging equipment – offering the most advanced and versatile features and software to meet all your 2D extraoral and intraoral imaging needs. From flexible patient positioning to high image quality, these imaging units represent 2D imaging at its finest.



Planmeca ProX™



Planmeca ProOne®

Planmeca ProSensor® HD



Planmeca ProScanner® 2.0



Planmeca ProMax® 2D

Planmeca ProMax[®] 2D

The benchmark for extraoral imaging

Planmeca ProMax[®] is a complete maxillofacial imaging system. The design and operation principles are based on the latest scientific research, technological innovations and the most demanding needs of modern-day radiology.

Different models for different needs

Planmeca ProMax[®] 2D S3

The three-joint model (SCARA3) **Planmeca ProMax[®] 2D S3** has been designed for all imaging needs: panoramic, true extraoral bitewing, TMJ, sinus and 2D tomography.

Planmeca ProMax[®] 2D S2

The two-joint model (SCARA2) **Planmeca ProMax[®] 2D S2** includes basic programs for panoramic, extraoral bitewing, TMJ and sinus imaging.



Key features

Advanced technology

- Autofocus positions the focal layer automatically for perfect panoramic images
- Dynamic Exposure Control (DEC) measures the patient's radiation transparency and automatically adjusts exposure values
- Patented SCARA (Selectively Compliant Articulated Robot Arm) technology guarantees an anatomically accurate imaging geometry for clear, error-free images
- Easy upgrades – add cephalostat or 3D imaging capability at any time

Effortless use

- Full-view patient positioning with triple-laser patient positioning lights
- Side entry for comfortable access
- Easy-to-use graphical interface
- **ProTouch[™] Desktop** for remote control panel operation on the imaging workstation
- Versatile **Planmeca Romexis[®] 2D** imaging software
- TWAIN support and full DICOM compliance

	ProMax 2D S3	ProMax 2D S2
Panoramic imaging	✓	✓
Cephalometric imaging, scanning	✓	✓
Cephalometric imaging, one-shot	✓	
True extraoral bitewing	✓	
Extraoral bitewing		✓
TMJ imaging	✓	✓
Sinus imaging	✓	✓
Tomographic imaging	✓	
Child mode	✓	✓
Autofocus	✓	
3D upgradeability	✓	
Robotic technology, three-joint model (SCARA3)	✓	
Robotic technology, two-joint model (SCARA2)		✓

Planmeca ProOne®

Simplicity at its finest



Planmeca ProOne® is our full-featured panoramic X-ray unit. It has been designed with simplicity in mind and features several cutting-edge innovations – combining extensive diagnostic capabilities and superior image quality into a compact, easy-to-use package.

Easy patient positioning

To minimise imaging errors caused by incorrect patient positioning, **Planmeca ProOne®** and all our other X-ray units support open positioning and convenient side entry for patients – both standing and seated. You can monitor your patient from the front and the side, with positioning further assisted by our triple laser beam system that indicates the correct anatomical positioning points.

User interface provides guidance

Planmeca ProOne is equipped with a full-colour graphical user interface to help guide you through procedures with clear texts and symbols. All settings are logically organised and easy to understand, which speeds up the imaging process and lets you focus on communicating with your patient and positioning them correctly.

Autofocus – for perfect panoramics every time

Our unique **Autofocus** feature automatically positions the focal layer using a low-dose scout image of your patient's central incisors. Landmarks in the patient's anatomy are used to calculate placement, enabling practically error-free patient positioning and dramatically reducing the need for retakes. The result is a perfect panoramic image, every time.

Panoramic imaging	✓
Extraoral bitewing	✓
TMJ imaging	✓
Sinus imaging	✓
Child mode	✓
Autofocus	✓

Intraoral imaging

Our premium **Planmeca ProX™** intraoral X-ray unit and advanced sensor system **Planmeca ProSensor® HD** combine perfectly to meet your intraoral imaging needs. The integrated system guarantees a smooth imaging workflow, while the smart design features make it effortless to use. Our full-featured **Planmeca ProScanner® 2.0** imaging plate scanner offers top-quality images and a fast scanning process to support your everyday tasks.

Planmeca ProX™

Flexible intraoral X-ray unit

The **Planmeca ProX™** unit provides easy and precise positioning, a straightforward imaging process and top-quality images in high resolution. It is a highly beneficial and effective 2D imaging option for all dental clinics, making intraoral imaging easier and more reliable than ever.

- Optimal images for all diagnostic needs: variable kV and mA
- Quick and easy to use: pre-programmed quick settings, practical design
- Digital-ready
- Integration with the **Planmeca ProSensor® HD** intraoral sensor
- Smooth workflow with the **Planmeca Romexis®** software
- Versatile installation options



Planmeca ProSensor® HD

Innovative intraoral sensor

Our innovative **Planmeca ProSensor® HD** intraoral sensor offers a unique combination of unparalleled image quality, patient-centred design, and usability. The sensor has been designed to last and provides durability that can be counted on.

- True resolution of over 20 lp/mm
- Sharp and low-noise images with high contrast
- Wide dynamic range
- Three sensor sizes with rounded edges
- Magnetic connector for ease of use
- Colour-coded LED light on control box for instant visual feedback
- Integration with the Planmeca ProX intraoral X-ray unit
- Fully compatible with Windows and Mac
- Plug and play USB version
- Five-year warranty program – two years upon registering the product with the opportunity to purchase three additional years



Planmeca ProScanner® 2.0

User-friendly and reliable imaging plate scanner

Our new **Planmeca ProScanner® 2.0** imaging plate scanner is a high-quality option for fast and dependable intraoral imaging. With intelligent design details and outstanding durability, the scanner supports everyday tasks at a dental clinic – providing reliability that is hard to match.

- Maintenance-free imaging plate scanner designed for active use
- Smart and durable imaging plates for enduring comfort
- Accelerated workflow due to a streamlined imaging process



Frontrunners in **open** CAD/CAM dentistry

Planmeca offers a comprehensive selection of high-end CAD/CAM solutions for various needs. Different clinical workflows are conveniently carried out from start to finish with our open, top-quality CAD/CAM devices and software. The choice is yours!



Scan



Intraoral scanners
Planmeca Emerald™ S
Planmeca Emerald™



Desktop scanner
Planmeca PlanScan® Lab



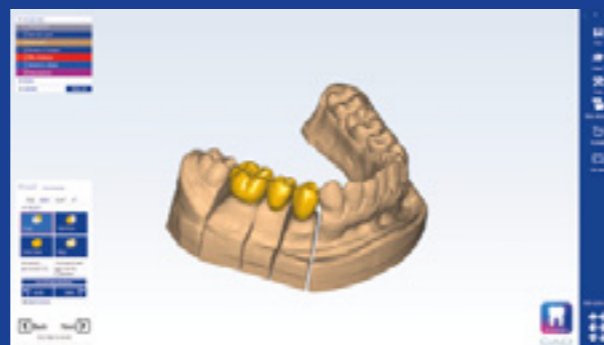
Examine – Analyse – Design



Scanning and analysing software
Planmeca Romexis® Model Analyser



Scanning and designing software
Planmeca PlanCAD® Easy



Advanced designing software
Planmeca PlanCAD® Premium



Create



Chairside milling units
Planmeca PlanMill® 40 S
Planmeca PlanMill® 30 S



3D printer
Planmeca Creo™ C5



Laboratory milling unit
Planmeca PlanMill® 50 S

Planmeca intraoral scanners

*Our great selection of intraoral scanners includes a suitable scanner for every need. All our scanners are fully integrated into Planmeca devices and software, enabling exceptionally smooth workflows. At the same time, the open architecture allows users to share their scans as they like. The newest addition to our scanner family, **Planmeca Emerald™ S**, is a brilliant premium version of the beloved **Planmeca Emerald™**. The new scanner is twice as fast as its predecessor and offers a truly pleasant scanning experience!*



Planmeca Emerald™ S and Planmeca Emerald™
Capturing digital impressions has never been as easy!



Planmeca Emerald™ S – hyper-speed scanning with superior usability

All the great features of the original Planmeca Emerald™ combined with spectacular improvements:

- Superior capturing speed
- Outstanding usability – easier scanning experience
- Beautiful, vivid and natural colours
- Tooth shade assistant



Planmeca Emerald™ – the original crown jewel of intraoral scanning

- Fast and accurate
- Small and lightweight

Scanning and designing software

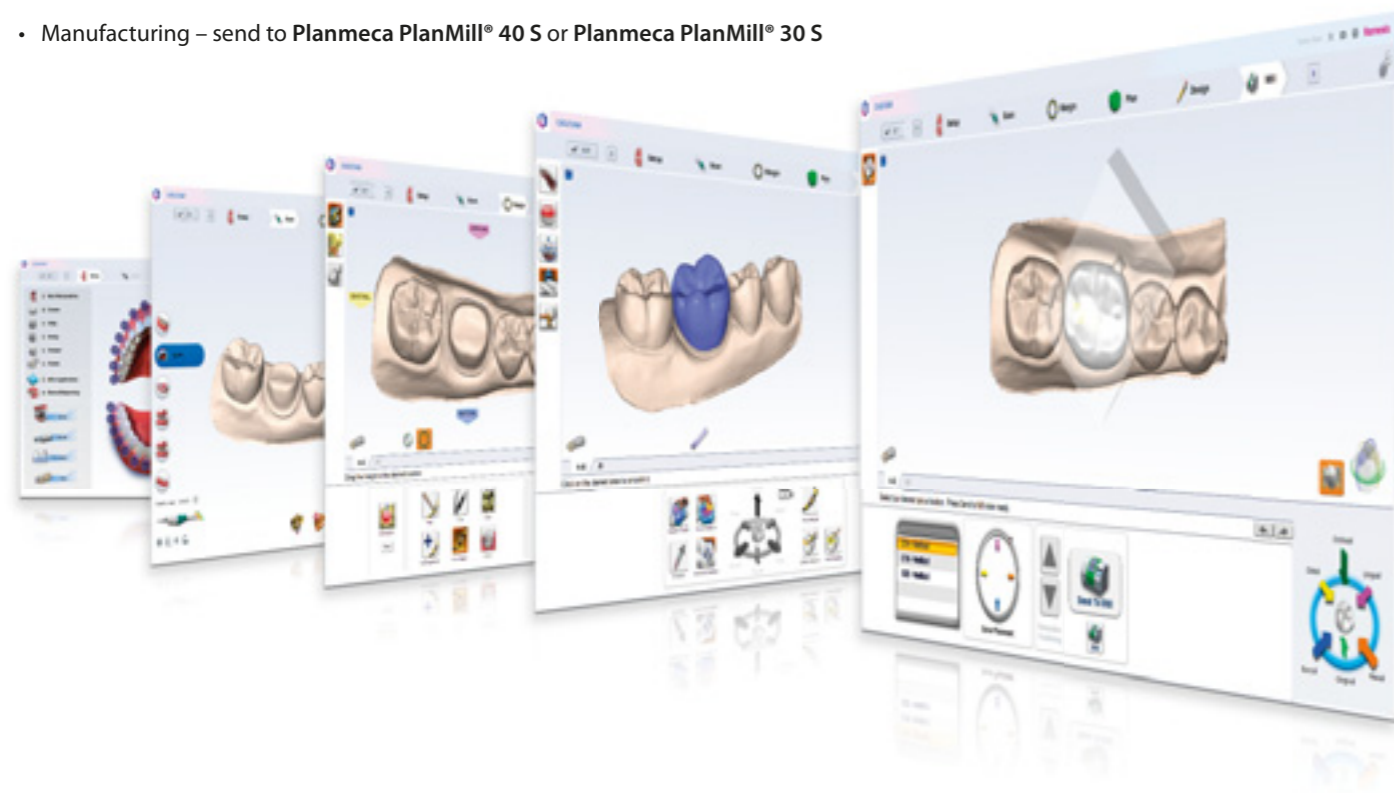
Easy and efficient design tool for prosthetic works

Planmeca PlanCAD® Easy is our open CAD software suite designed especially for dentists. It is the perfect tool for sophisticated 3D designing and planning at a dental clinic. The software is easy and fast to use and ideal for designing a wide range of prosthetic works – from a single crown to bridges.

- Extensive range of applications: crowns, abutments, inlays, onlays, veneers and bridges
- User-friendly designing – fast, easy and carefree
 - automatic saving
 - automatic design: contact strength, anatomical shape and minimum material thickness
 - automatic removal of unwanted data
- Option to modify the restoration manually after automatic designing
- Part of the **Planmeca Romexis®** software

Simple workflow from description to milling

- Work description
- Scanning
- Marking the margin line
- Designing
- Manufacturing – send to **Planmeca PlanMill® 40 S** or **Planmeca PlanMill® 30 S**



Smooth usability and automatic design of restorations

Scanning and analysing software

Ingenious tool for scanning, analysing and transferring digital impressions

Planmeca Romexis® Model Analyser is a new, user-friendly software module dedicated to easy working with intraoral scans. It streamlines the workflows especially in orthodontics and brings them to a whole new level.

Main features

- Direct intraoral scanning with **Planmeca Emerald™** and **Planmeca Emerald™ S** intraoral scanners
- Examine digital models using predefined views
- Examine tooth width, arch length and free measurements
- Compare scans captured at different times: follow treatment results or tooth wear
- Create bases for 3D printable models
- Send digital impressions to 3rd parties using **Planmeca Romexis® Cloud** transfer service



Chairside milling units

Take milling to the next level

Our **Planmeca PlanMill®** milling units are the leading choice for fast and accurate milling directly at a dental clinic. With their enhanced performance and numerous smart features, the units offer the most advanced milling experience on the market.

- Linear motors for the highest precision
- On-board computer for an independent workflow and optimal control
- Expanded range of applications – abutments, crowns, inlays, onlays, veneers and up to 6-unit bridges
- Smart tool paths – optimised to suit material characteristics
- Guided maintenance – from daily cleanings and water changes to annual preventive maintenance notifications
- The pioneering **Planmeca Romexis® Clinic Management** software module for ultimate efficiency: real-time monitoring of task status, milling statistics, diagnostic log view and quick guides

Planmeca PlanMill® 40 S

Powerful and precise

- Fast milling speed – two spindles, 8–10 minutes per restoration
- Automated tool changer for 10 tools

Planmeca PlanMill® 30 S

Efficient and cost-effective

- High-speed single-spindle milling unit, 11–13 minutes per restoration
- Rotary axis enables milling both sides of the block with a single spindle
- Automated tool changer for 5 tools



3D printer for chairside manufacturing

The ultimate dental 3D printer

Planmeca Creo® C5 is the combination of speed and precision you have been waiting for. Designed specifically for dental professionals, the durable and compact 3D printer enables fabricating the dental applications you need in a fraction of the usual time.



Planmeca Creo® C5 is a fast, calibration-free solution that has been developed in cooperation with some of the best clinical experts in dental technology. The distortion-free monochrome LCD technology and robust aluminium body of the printer ensure outstanding mechanical precision, which results in highly accurate and predictable prints. Print multiple objects at once without extended printing times and save your time for the next patient.

Key benefits

- Industry quality at an accessible price
- Monochrome LCD printing technology and aluminium construction allow fast and accurate printing
- Easy to take into operation – just plug and print
- Open import for STL and PLY file formats
- Pre-programmed optimised material settings
- No calibration or fixed service intervals necessary
- Optimised printing materials with sophisticated resin handling system



Planmeca Romexis[®] – one software for all your needs

We offer a revolutionary all-in-one software solution for clinics of all sizes. Our world-leading **Planmeca Romexis[®]** software is the brains behind all of our products, bringing together all the devices at your dental clinic from CAD/CAM to imaging devices and dental units. The easy-to-use Romexis supports the most versatile range of 2D and 3D imaging modalities.

Mac* and
Windows
compatible



Planmeca
Romexis
all-in-one software

*Some functions only supported on Windows operating systems.

Flexible and powerful software platform

Planmeca Romexis® is a unique imaging software that supports all types of dental imaging from 2D and 3D to CAD/CAM. All data can be acquired, viewed and diagnosed in one easy-to-use software platform and stored in one centralised database.

Easy-to-use imaging software for all user needs

Planmeca Romexis® provides efficient tools for all specialists enabling accurate treatment planning. It even contains tools for designing surgical guides, splints, dental models and restorations for in-house 3D printing or milling. The software is designed for easy and efficient use and adapts to all user needs.

Open and integrated

Planmeca Romexis is an open software platform that connects to a wide array of practice management and third-party imaging software. All 2D, 3D and CAD/CAM data can be exported from the software in standard format without extra fee. All standard format images can also be imported into Romexis. The software supports the DICOM 3.0 standard, which allows connectivity with hospital systems.

Centralised image archive

Third-party imaging devices, such as panoramic X-ray units or image scanners, can be directly connected to Romexis via the TWAIN standard. The Romexis database can receive images from third-party X-ray devices by using the DICOM standard, so it can also be used as a device-independent centralised image archive.



All business scopes

- Private practices with one treatment room
- Medium sized clinics
- Multi-site group practises
- Hospitals and universities

All specialities

- Radiology
- Implantology
- Prosthodontics
- Orthodontics
- Endodontics
- Maxillofacial surgery
- ENT
- Periodontics
- Aesthetic dentistry

All modalities

- 2D X-ray images
- Photos
- CBCT images
- 3D digital impressions
- 3D photos
- TWAIN devices
- 4D jaw motion records

All platforms

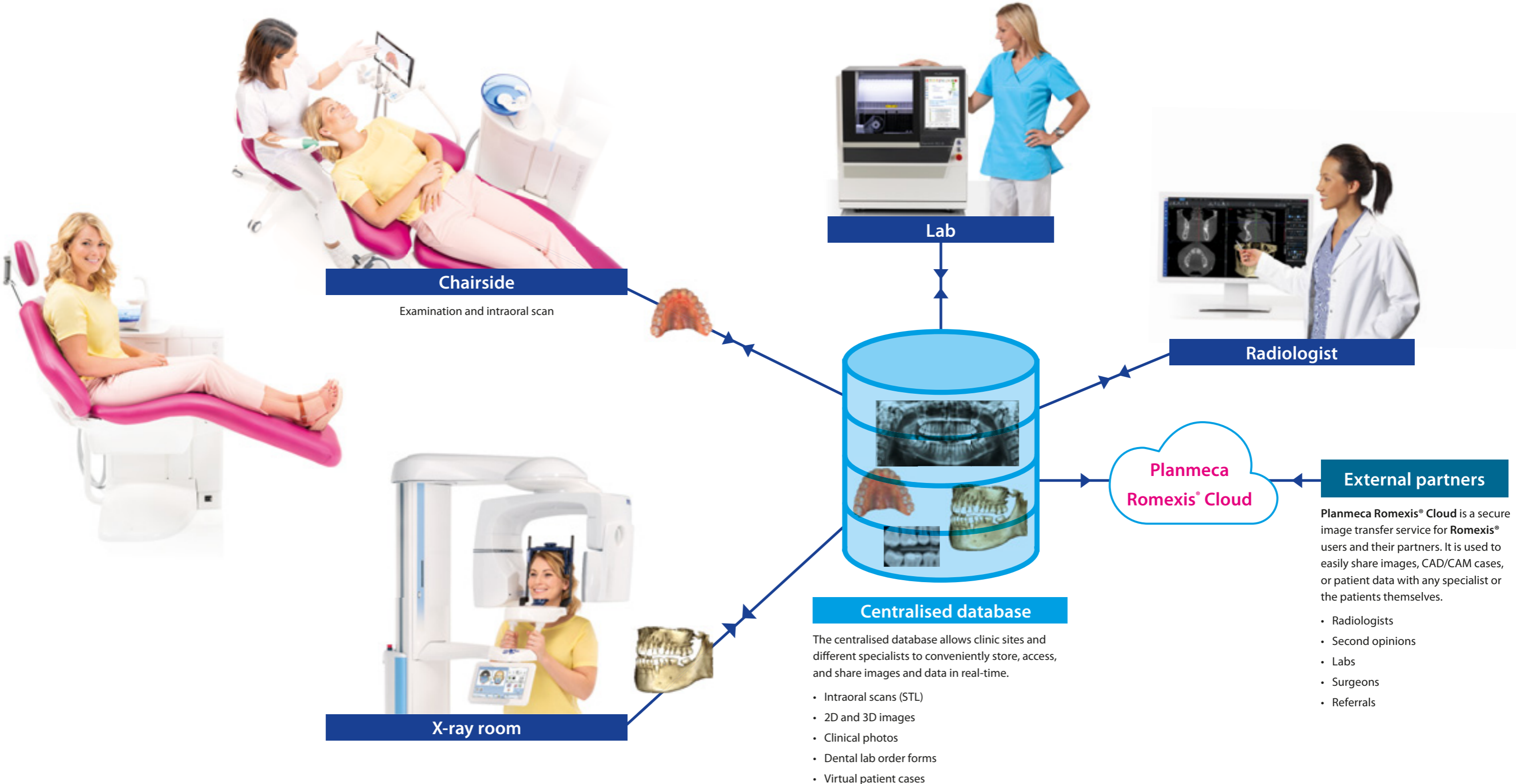
- Native support for Windows and Mac
- Planmeca mRomexis™ mobile imaging application for iOS and Android tablets
- Planmeca Romexis® Cloud image transfer service



All clinical images in **one** database

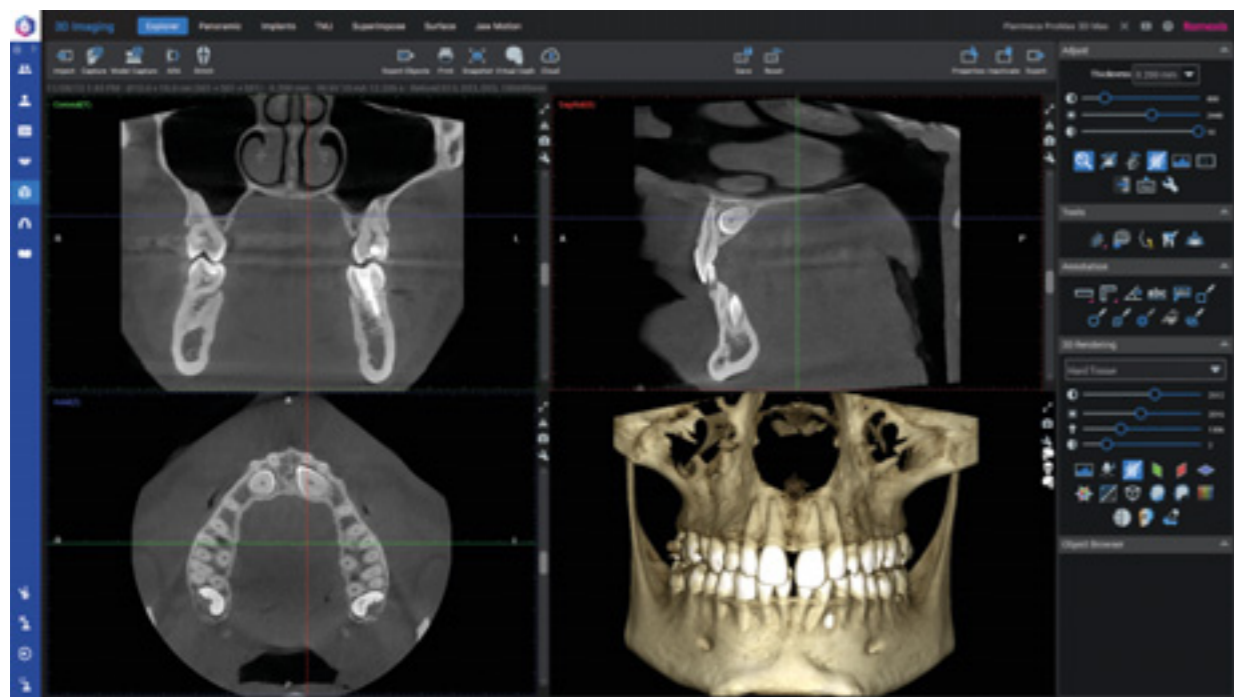
With the **Planmeca Romexis**® software platform, all clinical images are stored in one database. All patient data can be easily shared with other clinic members inside the clinic network. The cloud-based transfer service enables the secure sharing of patient data with external specialists and labs. Romexis supports multi-site solutions by connecting one master database to local databases.

Easy access to all images



The most advanced 3D software

Our pioneering **Planmeca Romexis**® software offers specially designed tools for implantologists, endodontists, periodontists, prosthodontists, orthodontists, maxillofacial surgeons, and radiologists. You can also view your images wherever you are using our mobile apps, and enjoy unmatched compatibility with other systems.



Excellent tools for quality images

With a complete set of tools for image viewing, enhancement, measurement, drawing and annotations, **Planmeca Romexis**® improves the diagnostic value of radiographs. Versatile printing and image import and export functionalities are also included. The software consists of different modules – so you can choose those most suited to your needs.

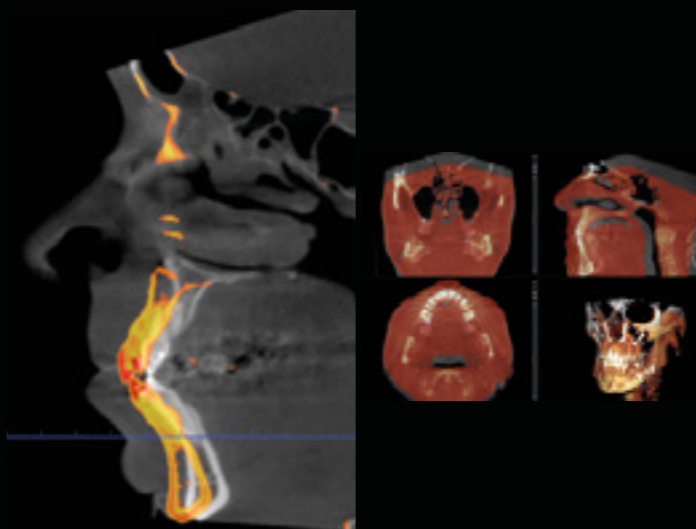
Convenient 3D diagnosis

The Planmeca Romexis 3D rendering view gives an immediate overview of the anatomy and serves as an excellent patient education tool. The images can be instantly viewed from different projections or converted into panoramic images and cross-sectional slices. Measuring and annotation tools – such as nerve canal tracing – assist in safe and accurate treatment planning.

Best compatibility with other systems

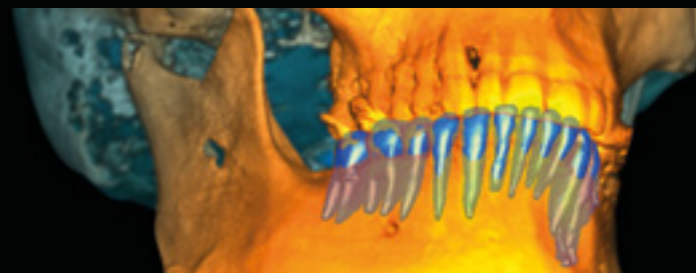
Planmeca Romexis offers excellent compatibility with other systems, allowing you to freely use third-party products at your clinic. TWAIN support and DICOM standard compliance ensure that our flexible software can be used effortlessly with most systems.

Tampere University Hospital, Medical Imaging Center, Finland



Superimpose CBCT

Planmeca Romexis allows the superimposition of two CBCT images. It is a valuable tool for before-and-after comparisons and can be used for orthognathic surgery follow-ups, as well as orthodontic treatments, for example.



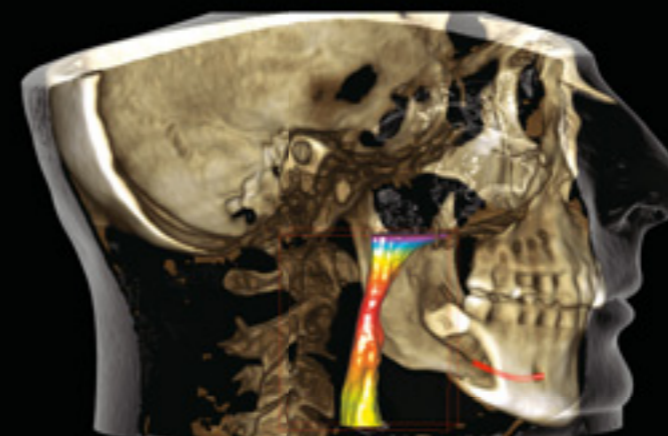
Tooth segmentation

Planmeca Romexis provides an intuitive and efficient tool for segmenting a tooth and its root from a CBCT image. Surface models of segmented teeth can be visualised, measured and utilised e.g. in **Planmeca Romexis**® 3D Ortho Studio as part of orthodontic treatments.



Shaping tool for 3D face photo

The shaping tool allows for free modification of **Planmeca ProFace**® surfaces to simulate effects of treatments or surgery, for example.

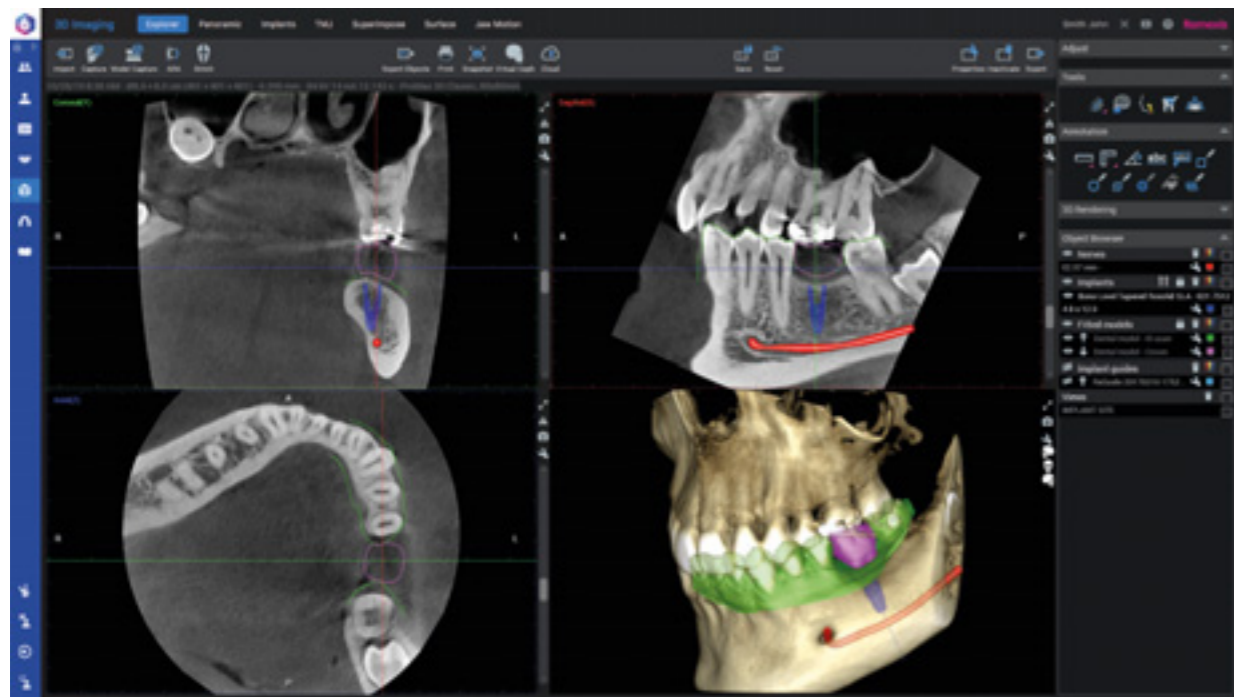


Airways visualisation

Visualise and measure airways and sinus volumes before and after treatment for simplified diagnosis and treatment planning. Our advanced software tools allow accurate measurements in 3D space. Measurements can easily be reviewed using the saved views.

The complete implant workflow

Our Planmeca Romexis® 3D Implant Planning module offers all the necessary tools for fully digital implantology – from planning to guided surgery. The software's implant library includes realistic implant models as well as collections of sleeves for guided surgery. After completing the implant plan, a surgical guide can be immediately designed in the same Planmeca Romexis® software with just a few clicks.



The Planmeca Romexis® software platform provides the perfect environment for top-down implant planning. By superimposing a crown and dental model onto CBCT data, users can create a complete virtual setup for optimally positioning the implant – taking prosthodontic and surgical perspectives into account.

Realistic implant models from over 100 manufacturers

See a constantly growing list of all the implants included in the Romexis implant library at planmeca.com/Romexisimplantlibrary



Top-down implant workflow

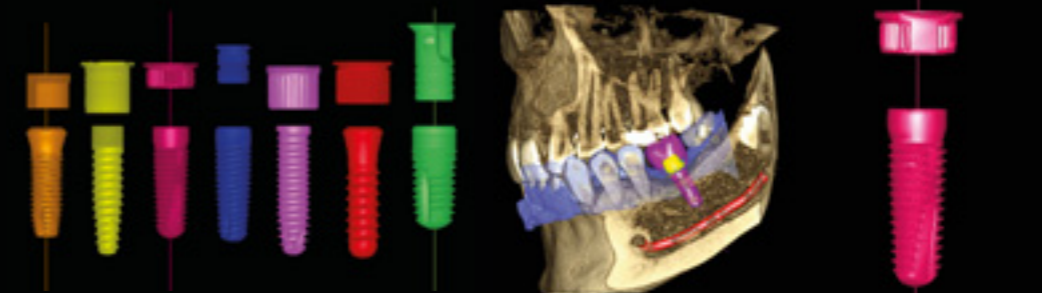


Mark the nerve on the CBCT image

Superimpose the 3D model scan onto the CBCT image with the Planmeca Romexis® software



Use the Planmeca Romexis® crown library, or import a patient-specific crown from the CAD system to the software



Select the preferred implant and sleeve from the extensive Planmeca Romexis® library and find the optimal position for it from a prosthetic and surgical perspective



Design the surgical implant guide with just a few clicks in Planmeca Romexis® – the software will create an open STL file of the design

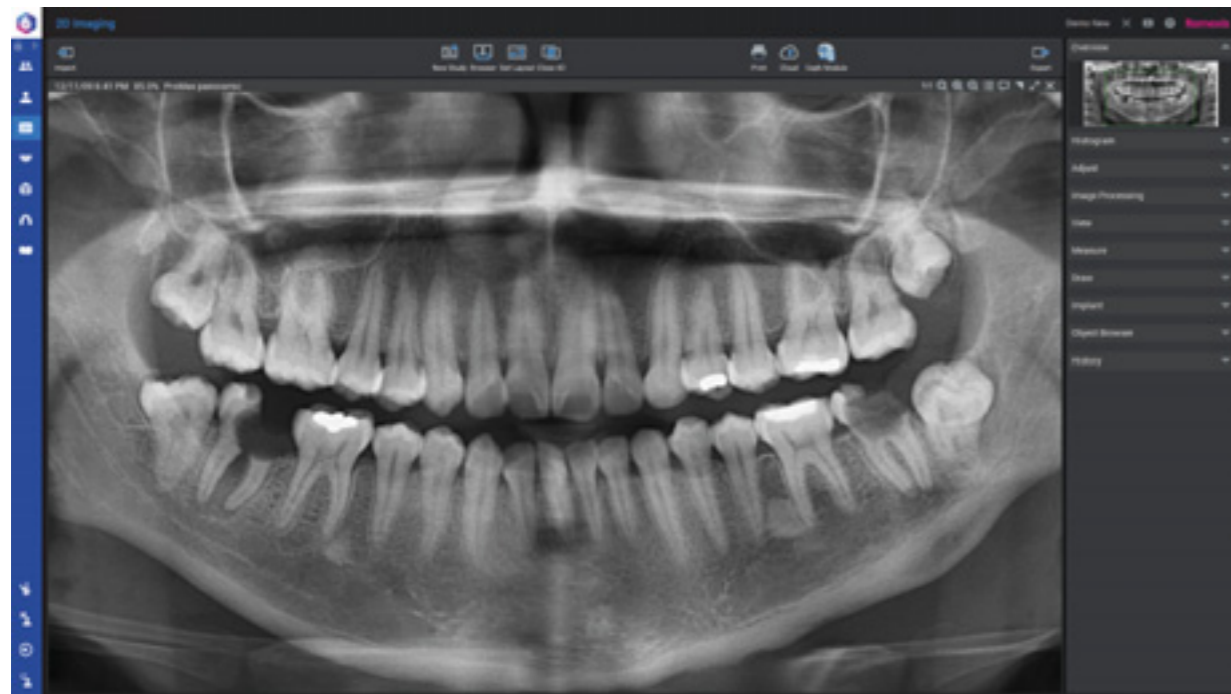
Romexis allows designing both tooth- and mucosa-supported guides.



Print the surgical guide with Planmeca Creo™ C5 or any other suitable 3D printer.

High-performance 2D imaging

Our advanced **Planmeca Romexis®** software platform offers the most versatile tools for 2D imaging. Diagnose images using our full range of enhancement tools – or view them wherever you are with our mobile apps. This flexible dental imaging software adapts to your needs and will grow into the third dimension together with your practice.



Easy and powerful

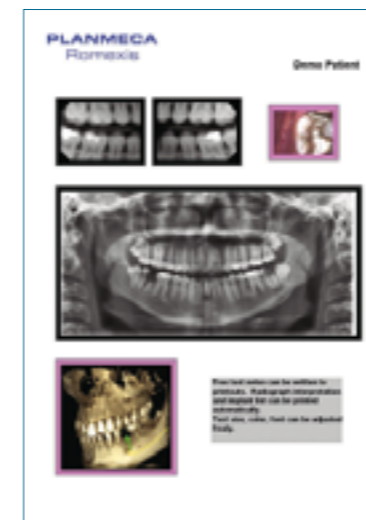
Planmeca Romexis® is the software of choice for viewing and processing 2D images from Planmeca X-ray units. Powerful enhancement and analysis tools help users in all specialties reach accurate diagnoses, while the intuitive interface guarantees confident and comfortable usability from day one.

Open and compatible

Planmeca Romexis stores all patient 2D images in one centralised database – from X-ray images to photos and even videos. All images are available in the network immediately and can always be exported in standard formats. Our integration with other systems allows you to freely utilise third-party product at your clinic. TWAIN support and DICOM standard compliance ensure that software can be used with most systems.

Integrated document management

With Romexis, it is easy to create professional, high-quality printouts and radiology reports to be sent to referring dentists – with multi-page support included. Documents of any type can be attached to patient files, ensuring convenient storage for cephalometric tracing reports, referral letters, and other relevant information.



Advanced implant planning

Planmeca Romexis provides powerful tools for implant planning, including realistic implant models from over 100 manufacturers. You can find the constantly growing list of all the implants included in the implant library at planmeca.com/Romexisimplantlibrary.



Share images and expertise online

Planmeca Romexis® Cloud is a secure image transfer service for Planmeca Romexis® users and their partners for sharing image and patient data with any specialist, dental lab or patient. You can share images and expertise securely with all partners who use Planmeca Romexis, the free Planmeca Romexis® Viewer, the free Planmeca Romexis® LabApp or the Planmeca mRomexis™ mobile tablet application.

Romexis® Cloud – versatile possibilities for communication

- External applications, DVDs and insecure file transfers are history – images can be sent directly from Planmeca Romexis®
- Share images and data with your dental partners and patients
- The Romexis software and Planmeca Romexis® Cloud subscriptions are required to send new cases – recipients only need an e-mail account at minimum

Key features

Transfer any type of information

- Images: 2D, 3D, STL
- Referrals and interpretations
- Treatment plans

Flexible sending options enable easy communication with all parties

- From Romexis to Romexis
- From Romexis to Romexis LabApp
- From Romexis to email
 - Optionally include the free Romexis Viewer for the easy viewing of images by anyone
- From Romexis to Planmeca mRomexis

Visit online.planmeca.com to subscribe and start sending images now.

IMAGING WORKFLOW



Planmeca equipment owner

- Romexis software
- Romexis Cloud subscription

General practice, specialist, radiologist

- Free Romexis Viewer application or Romexis

CAD/CAM WORKFLOW



General practice

- Romexis software
- Romexis Cloud subscription

Dental lab

- Free Romexis LabApp application



Increased flexibility with Planmeca mRomexis™ tablet application

Use our fast, easy, and light Planmeca mRomexis™ mobile imaging application to view all your images in the Planmeca Romexis database on a local network, or to carry images with you on your tablet device. You can also use the application to take photos with the tablet camera.

Download the Planmeca mRomexis application for iOS and Android from the [App Store](https://www.apple.com/app-store) or [Google Play](https://www.google.com/play).

View images with free Romexis® Viewer application

Planmeca Romexis® Viewer is a free application that can be exported and sent together with images from Romexis.

- Full-featured viewer application for 2D and 3D images
- No installation required
- Mac and Windows support
- Distribute to specialists or patients

Visit planmeca.com/Viewer for downloading Planmeca Romexis Viewer application.

Dental lab communication with free Romexis® LabApp application

Planmeca Romexis® LabApp is a free application designed for dental laboratories to allow easy communication with dental clinics. It is designed especially for receiving intraoral scans but can be used for all types of image data. It uses Romexis Cloud as transfer service providing secure transfer of patient data.

- Receiving STL files, PLY scans, DICOM images, photos and PDF files from Planmeca Romexis users
- Instant viewing of STL and PLY files for checking
- Exporting all case data to a 3rd party dental CAD/CAM system
- Messaging between the lab and the clinic using the built-in case messaging

Visit online.planmeca.com for downloading the Planmeca Romexis LabApp application.



Access to unique X-ray device data

Take the efficiency of your clinic to the next level with real-time information on networked equipment usage and events. Our digital tools offer several quality assurance and service benefits for local users and also allow you to remotely monitor your clinic from anywhere.

Planmeca equipment can be networked to gather valuable data on their use.

- Detailed X-ray log book with dosage and sensor information
- Meet regulatory requirements with automatic recording of image exposure values: kV and mAs
- Enhanced operational planning – exposure counts and modality distribution
- Enhance operational planning – usage hours
- Use detailed event logs to improve quality assurance – including radiation hygiene
- Maximise equipment uptime with fast and accurate trouble-shooting



Dental units – choose your best companion

Our *Planmeca Compact™ i* dental unit range already has tens of thousands of happy users around the world, and it is continuously evolving to meet the needs of all types of dental clinics and specialties. Our product line includes three options for you to choose from, each of them designed to offer the smoothest possible workflow for the dental team and the most enjoyable treatment experience for patients of all sizes and ages.



Planmeca Compact™ i5



Planmeca Compact™ i Classic



Planmeca Compact™ i3

Which unit is right for you?

Planmeca Compact™ i5
Sleek and elegant, *Planmeca Compact™ i5* represents the latest step in the evolution of dental units. Combining revolutionary technology with luxurious design, it caters even to the most demanding needs. This is the dental unit everyone dreams of.

Planmeca Compact™ i Classic
The modern classic of dentistry – a functional choice offering all the features you need for a smooth and comfortable workflow.

Planmeca Compact™ i3
Our smallest unit, a true space-saver, which allows both right- and left-handed dental professionals to work comfortably in any position.

It's all in the details

Extensive light field

The Planmeca Solanna™ operating light provides excellent visibility to every corner of the treatment area.

Easy patient documentation

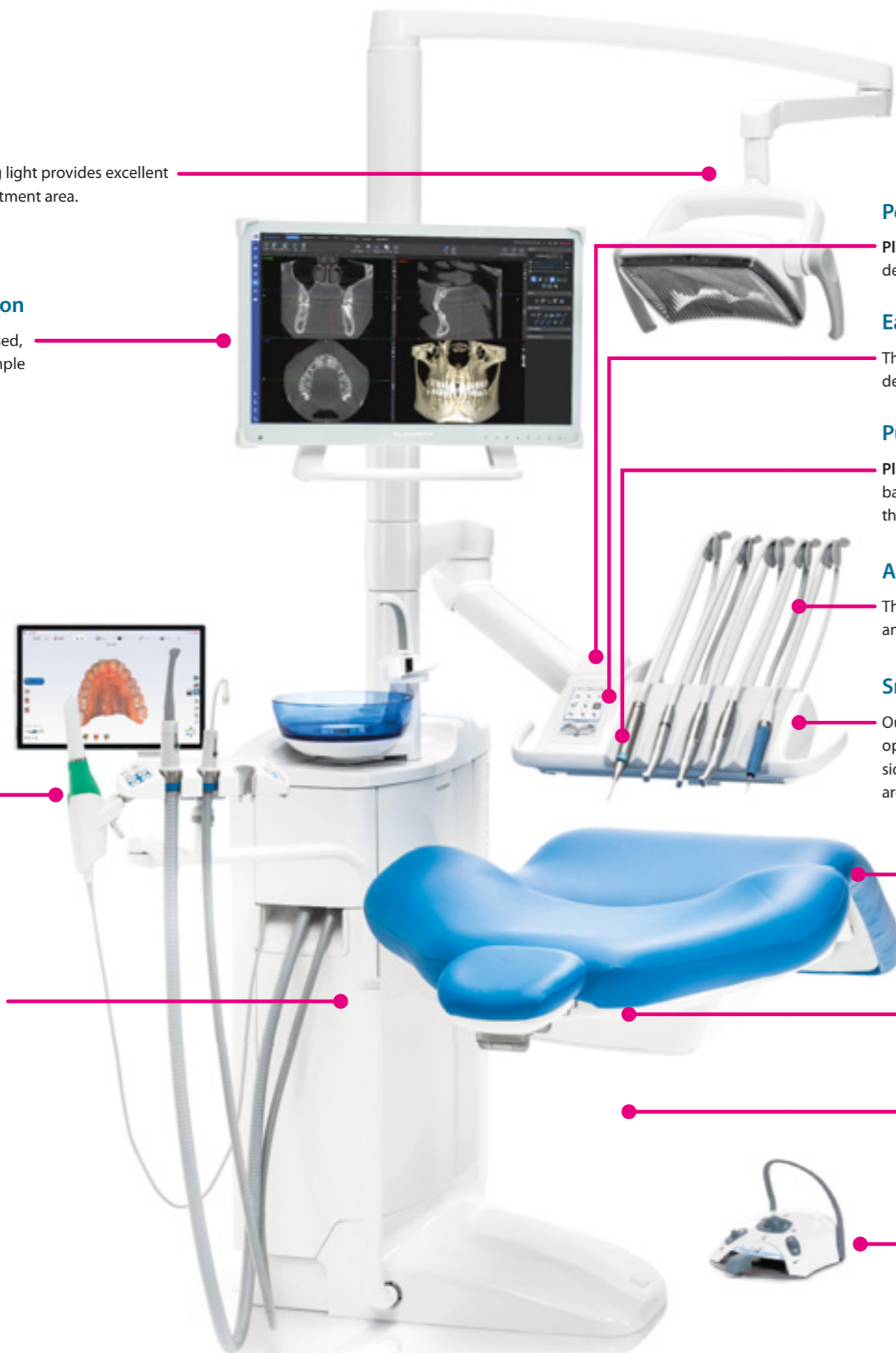
All clinical data can be easily accessed, making patient documentation simple and straightforward.

Intraoral scanner – just like any other instrument

The fast and lightweight Planmeca Emerald™ and Planmeca Emerald™ S intraoral scanners can be used, shared and operated with a foot control just like any other instrument. For an ergonomic workflow, the scanning data can be instantly viewed on your chairside screen.

Comfortable working positions

The wide height adjustment range allows you to work comfortably in a standing position, while the very low chair position also makes it possible to treat patients who are semi-reclined.



Personal settings easily available

Planmeca PlanID™ allows access to personal settings on any dental unit at a clinic with a simple flash of a card.

Ease of use – just plug and play

The intuitive touch panel is straightforward and easy to use with customisable dental unit functions, treatment position and instrument settings.

Pure water without added chemicals

Planmeca ActiveAqua™ is a dental unit integrated water treatment system based on electrochemical disinfection. This truly automated system purifies the water entering your dental unit without any added chemicals.

A comfortable grip and minimised strain

The world-class instrument arms offer optimal balance and support ergonomic instrument use.

Smartly designed instrument console

Our effortless console positioning allows instruments to be placed at the optimal ergonomic position. The console can also be moved to the assistant side for a smooth and efficient workflow. Instruments with quick connectors are interchangeable by user.

Foldable leg rest

The automatic leg rest makes it easy for patients to enter and exit the chair, ensuring a smooth workflow. It also provides excellent patient comfort and is practical for doctor-patient consultations and prosthodontic treatments.

Unrestricted operator access

The narrow top of the backrest allows the dental team to get as close as possible to the treatment area.

Extensive legroom

The floating chair and small cuspidor base maximise legroom for both dentist and assistant – allowing the whole team to get as close as possible to the patient.

Wireless foot control

The foot control can be positioned freely and used to carry out all the necessary functions. You can also use the foot control to operate Planmeca's intraoral scanners.

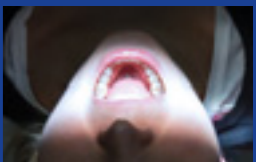


Planmeca operating lights

In dental care every detail matters, and that is why the operating light is an essential working tool. Our operating lights offer superior lighting, excellent colour reproduction and temperature control, great ergonomics, and much more.

Planmeca Solanna™

Perfect visibility over the entire treatment area – with the brightness and colour temperature of your choice.



Planmeca Solanna™ Vision

An intelligent light with integrated 4K cameras and microphones that allows you to take both premium-quality still images and videos.

Save time with automated infection control



Planmeca Compact™ i5

Designed to last – made to perform

The sleek and elegant Planmeca Compact™ i5 has been designed based on several decades of research and experience. Combining revolutionary technology with luxurious design details, this intelligent unit caters even to the most demanding needs. Lightweight yet powerful, it is the dental unit everyone dreams of.

The smoothest possible workflow

Planmeca Compact™ i5 has been designed to offer the smoothest possible workflow for the entire dental team. Its lightweight design and smooth movements help you to maintain an ergonomic working position throughout the day. Everything is within easy reach, making everyday work effortless and enjoyable.

Faster routines for a faster patient flow

In Planmeca Compact i5, all essential infection control functions are integrated and neatly organised in their own compartments. The cleaning procedures are automated, and the LED indicator on the dental unit informs about their status. These functions help to speed up infection control, which in turn means a faster patient flow and improved quality assurance. Planmeca Compact i5 is the perfect answer to the growing demands of today's dentistry.

Five generations of continuous improvement

Our Planmeca Compact™ i dental unit range has tens of thousands of users around the world. They have provided us with continuous and valuable feedback, which has enabled us to refine our dental unit so that it caters to the needs of today's and tomorrow's dental professionals. Planmeca Compact i5 is the culmination of five generations of continuous improvement.

The way you want it

There are as many working preferences as there are dental care professionals. Planmeca Compact i5 offers several delivery systems and a wide instrument range for you to choose from to meet your specific needs and requirements.

- 1 Over-the-patient delivery arm 520 mm with balanced instruments
- 2 Over-the-patient delivery arm 340 mm with balanced instruments
- 3 Over-the-patient delivery arm with hanging tube instruments
- 4 Side delivery with hanging tube instruments
- 5 Cart delivery with hanging tube instruments
- 6 Independent cart with hanging tube instruments



Planmeca Compact™ i Classic

The modern classic of dentistry

Planmeca Compact™ i Classic is the modern classic of our dental unit range – a functional choice offering all the features and instruments you need for a smooth workflow. Built for comfort and ease of use, it combines the best benefits of our ergonomic and practical design solutions.

Easy to learn, easy to use

Planmeca Compact™ i Classic has been designed for a smooth workflow and superior ease of use. Just like all our dental units, it is equipped with a simple and intuitive touch panel that guides you in your preferred language and lets you adjust all essential unit, instrument and infection control functions. The dental unit and instruments can also be operated directly from the foot control, leaving your hands free for patient treatment.

Ergonomic instrument use

Planmeca Compact i Classic can be equipped with the same comprehensive instrument range as all our dental units. The unit's balanced instrument arms guarantee an ergonomic workflow, since only small movements are needed to use the instruments. This minimises the strain on your arm, wrist and shoulder. The dental unit can also be equipped with hanging tube instruments. The freely interchangeable instruments and easy console movements allow the unit to be swiftly tailored to meet personal preferences.

A relaxing treatment experience for the patient

Planmeca Compact i Classic always supports a relaxing treatment experience – even through longer visits. The chair's design follows the shape of the patient's body and provides firm and comfortable support, while the double-articulated headrest allows comfortable positioning of the patient's head. Armrests can be fitted for additional support. The **Ultra Relax™** upholstery, made of durable artificial leather and viscoelastic memory foam, guarantees extra comfort.



Planmeca Compact™ i3

Small, swift and clever

We believe that great ergonomics, a smooth workflow and ease of use should be a necessity, not a luxury. The small, swift and clever **Planmeca Compact™ i3** dental unit is a smart choice for any dentist looking for a space-saving solution. The flexible movement range of the unit's delivery arm allows both right- and left-handed dental professionals to work comfortably in any position.

Simplicity without sacrificing efficiency

Planmeca Compact™ i3 has been designed to simplify everyday dentistry. Easy to learn and easy to use, it is equipped with an intuitive touch panel that guides you in your preferred language. Thanks to the simplicity of the unit's design, external infection control procedures are also easy to perform. The unit can be customised to individual preferences and upgraded with the features of your choice, such as an integrated intraoral scanner.

From right- to left-hand use in 10 seconds

Planmeca Compact i3 can be switched from right- to left-hand use in just 10 seconds simply by moving the instrument console – without having to move the operating light. This makes it a practical solution for all clinics where several dentists use the same dental unit and space is limited.



From right to left in 10 seconds



A swift and space-saving solution

Planmeca Compact i3 is a truly flexible dental care unit that fits into any clinic layout. Due to its slim design and narrow backrest, the unit offers plenty of working space around it, allowing your team to work comfortably whether sitting or standing. The small instrument console can be positioned above the patient, making it easier to maintain an ergonomic position throughout the day. The unit's swivel function can be used to make fine adjustments according to your preferences.

A practical choice especially for large clinics with several users

The unique **Planmeca PlanID™** sign-in system allows dentists to access their personal settings instantly on any dental unit with a simple flash of a card. This helps clinics maximise their resources and utilise their equipment flexibly, since units no longer need to be assigned to specific users. All usage information is stored in the **Planmeca Romexis®** software – this way, large clinics and chains can benefit from knowing when, how and by whom the unit has been used.



A truly flexible dental unit

- From right to left in 10 seconds
- Wide delivery arm movement range
- Plenty of working space on every side
- Comfortable working positions from 7 o'clock to 3 o'clock
- Swivel function for fine adjustments



Ideal for both two- and four-handed dentistry



Planmeca Oy designs and manufactures a full line of industry-leading dental equipment, including 3D and 2D imaging devices, CAD/CAM solutions, dental care units and software. Planmeca Oy, the parent company of the Finnish Planmeca Group, is strongly committed to better care through innovation, and it is the largest privately held company in the field.

Follow us on social media!



PLANMECA

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