3D
imaging

PLANMECA

ProMax3D
ProFace

PLANMECA
ProMax 3D s

| Panoramic | Teeth | Skull | Cephalo | Middle Ear |

Passion to innovate

An introduction from our President

"Welcome to the future of digital imaging. It gives me great pleasure to introduce you to our world-leading **Planmeca ProMax® 3D** X-ray units and **Planmeca Romexis®** imaging software – with a pioneering combination of 3D images that takes you closer for an even greater understanding of what your patients need.

I'm extremely proud of our product innovations, and for over 40 years 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.

This brings us to our **Planmeca ProMax®** product family, taking care of all your 2D and 3D imaging needs in a single unit. Each product is a true all-in-one unit, offering easy-to-use controls and incredible patient comfort. We have a dedicated team of in-house R&D professionals behind the scenes, all determined to make the best possible products for you and your patients. Therefore I am thrilled to invite you to discover our complete selection of advanced 3D solutions."

Heikki Kyöstilä
President and founder
Planmeca Group

Fantastic five
Meet the Planmeca ProMax® 3D family

Planmeca ProMax® 3D s

Planmeca ProMax® 3D

Planmeca ProMax® 3D Plus

Planmeca ProMax® 3D Mid

Planmeca ProMax® 3D Max

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 are designed to meet all your maxillofacial imaging needs.*

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

Unique 3D combination
– an industry first

3X 3D

We're the first company to combine three different types of 3D data with one X-ray unit. The Planmeca ProMax® 3D family brings together a Cone Beam Computed Tomography (CBCT) image, 3D facial 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.

See more than ever before

CBCT
Why Cone Beam Computed Tomography?

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.
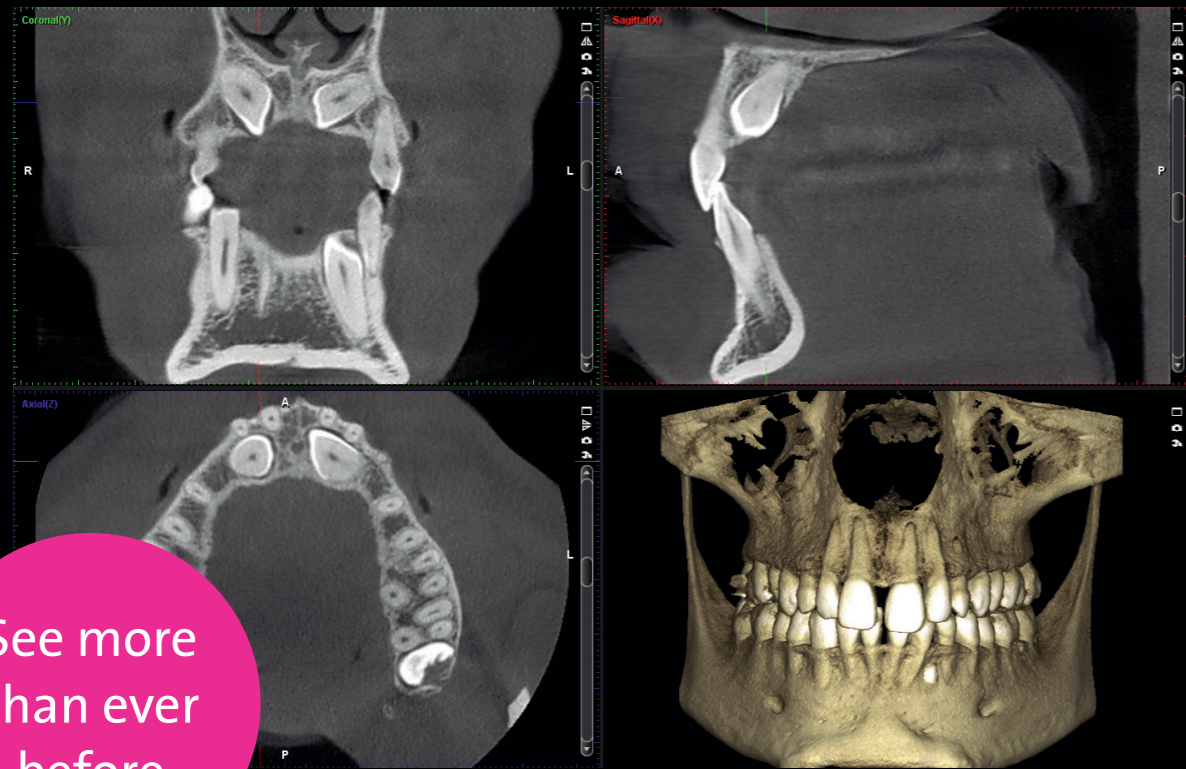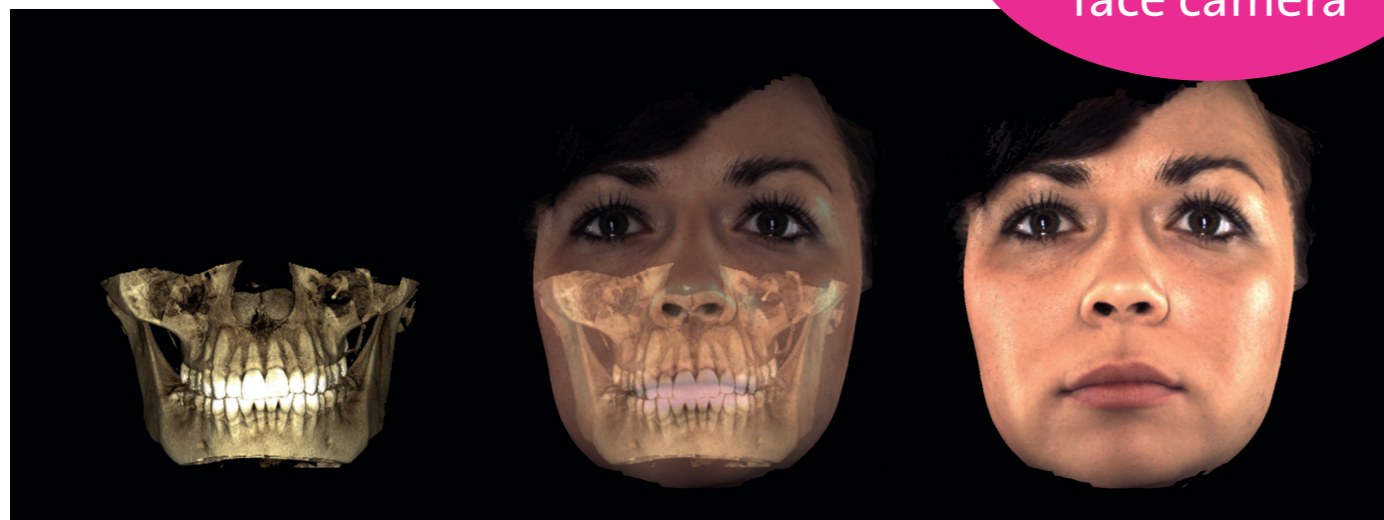
3D facial photo

Planmeca ProFace® is an exclusive 3D facial photo system available for all of our 3D X-ray units. This integrated system produces a realistic 3D facial 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.

The world's first X-ray integrated face camera

Planmeca ProFace® – the face in 3D

Designed to fulfill the most diverse diagnostic needs of today's maxillofacial and dental professionals, **Planmeca ProFace®** is a highly effective tool for pre-operative planning and treatment follow-up. It's also ideal for patient communication and for sharing information with colleagues.

Safer and faster facial surgery

The 3D photo visualizes soft tissue in relation to dentine and facial bones. As both a CBCT image and a 3D photo are generated in one imaging session, the patient position, facial expression, and muscle position remain unchanged – resulting in images that are perfectly compatible.
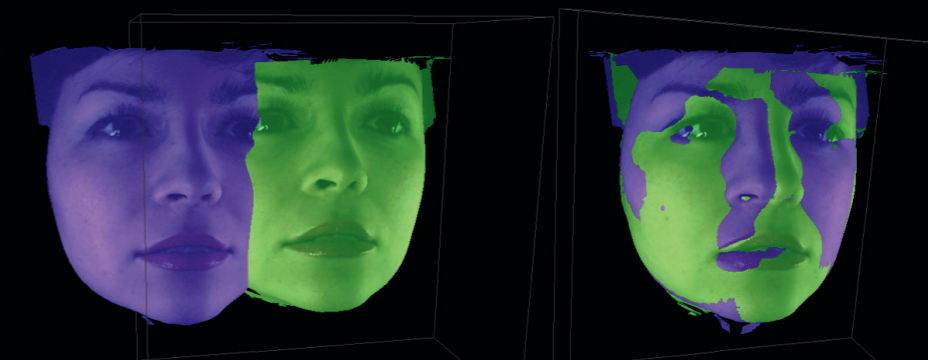
Careful pre-operative planning – where you can study the facial anatomy thoroughly using our **Planmeca Romexis®** software – facilitates accurate and detailed operations and enhances the aesthetic result.
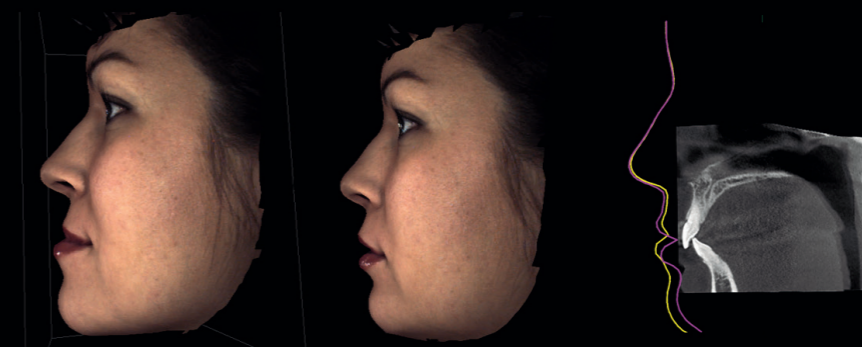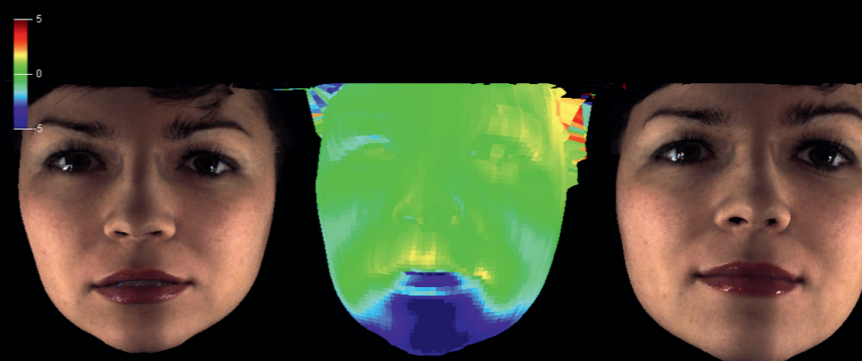
Pre and post-operative comparisons

Measure distances and relationships between bone and soft tissue

Superimpose images for comparison

Deviate images for instant viewing of changes

Create a 2D photo series automatically

3D model scanning

All X-ray units in the **Planmeca ProMax® 3D** family can be used to scan both impressions and plaster casts. With advanced **Planmeca Romexis®** software, the digitized models are available immediately and stored for later use.

Scanned impressions of upper and lower arches and bite index in 3D

Scanning a plaster cast to a digital model

Scanning an impression to a digital model

Upper and lower arch models in occlusion. A useful tool for orthodontic treatment planning and patient progress follow-up

Superimposed CBCT and 3D model of upper jaw. Measure, compare, and track changes in teeth movements

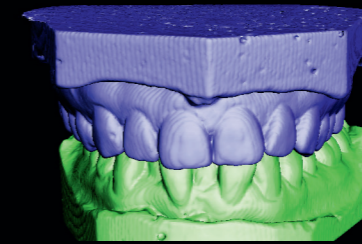## Advantages of 3D model scanning

Digital models save space

3D digital models are stored in the **Planmeca Romexis®** database in standard STL format, which reduces the need to make or maintain physical plaster casts.
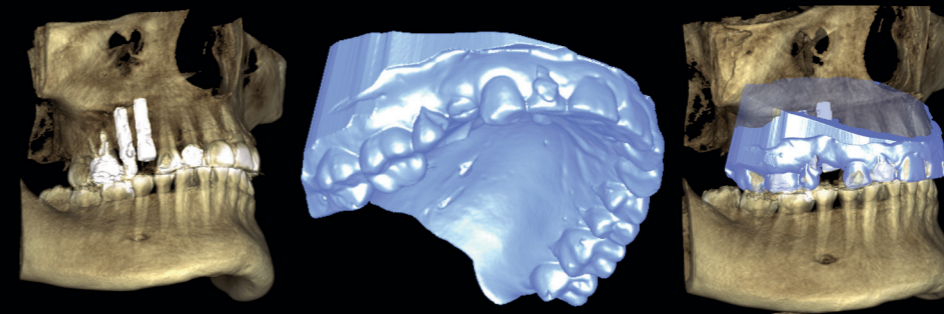
Create your virtual patient

The scanned 3D model can be superimposed on to CBCT data, creating a virtual patient and helping you with all your clinical and treatment planning needs. The combined data set provides an artifact-free model of your patient's dentition including bone, crowns and soft tissue. This offers valuable new options for implant planning, surgical guide manufacturing, orthodontic purposes and orthognathic surgery.

Crown, impression scan, and CBCT for more accurate implant planning

Planmeca
ProMax® 3D family
Key features

Advanced technology:

- Ideal resolutions and optimal balance between image quality and patient dose – always complying with the ALARA (*As Low As Reasonably Achievable*) principle

- The pioneering **Planmeca Ultra Low Dose™** protocol enables CBCT imaging with an even lower dose than traditional 2D panoramic imaging

- Optimal volume size and location for every clinical need

- Special imaging protocols for dental and ENT applications

Effortless use:

- Effortless patient positioning and unmatched comfort

- True all-in-one X-ray units not only for 3D imaging, but 2D panoramic and cephalometric imaging* as well

- Easy to use for a smooth workflow

- **Planmeca Romexis®** open-architecture software
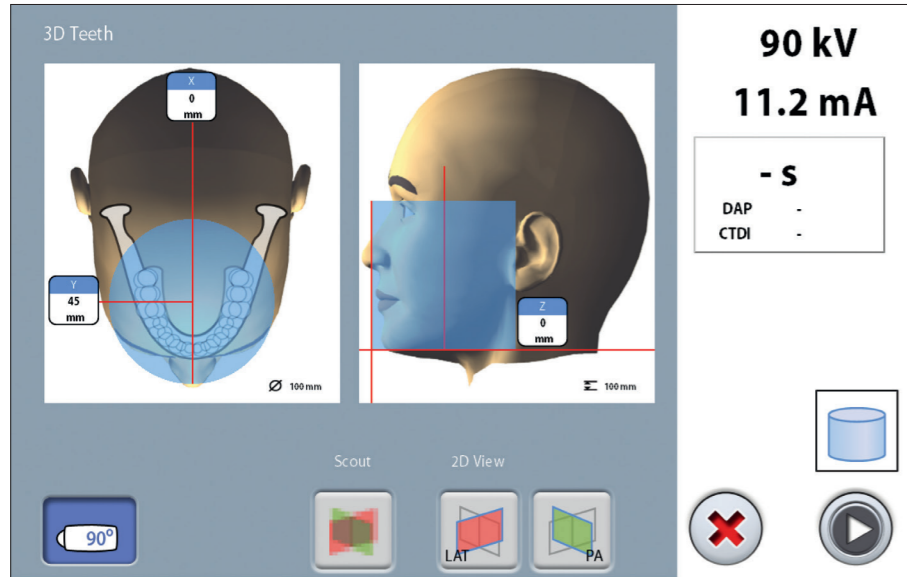
- Mac OS and Windows support

* All 2D modalities not available in **Planmeca ProMax® 3D Max**

Ease of operation

*Our **Planmeca ProMax® 3D** 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.*

3D Teeth

90 kV
11.2 mA

- s
DAP -
CTDI -

Scout   2D View
90°   LAT   PA

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 accomodation with side-entry access

## 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

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.

Unmatched patient support

90 kV
11.2 mA
- s
DAP
CTDI
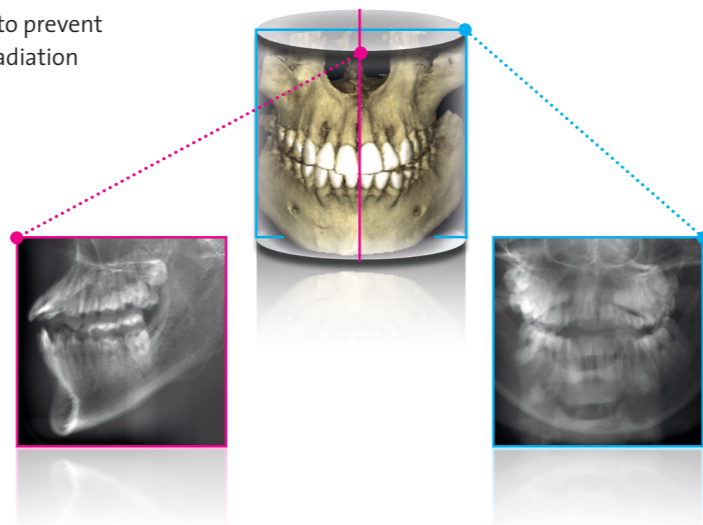
Advanced technology

Our intelligent solutions and algorithms provide ideal imaging geometry, optimal usability, and highly diagnostic images with significantly reduced noise and artifacts.

Intelligent solutions for the best image quality

SCARA technology

The precise, free-flowing, computer-controlled SCARA (*Selectively Compliant Articulated Robotic 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.
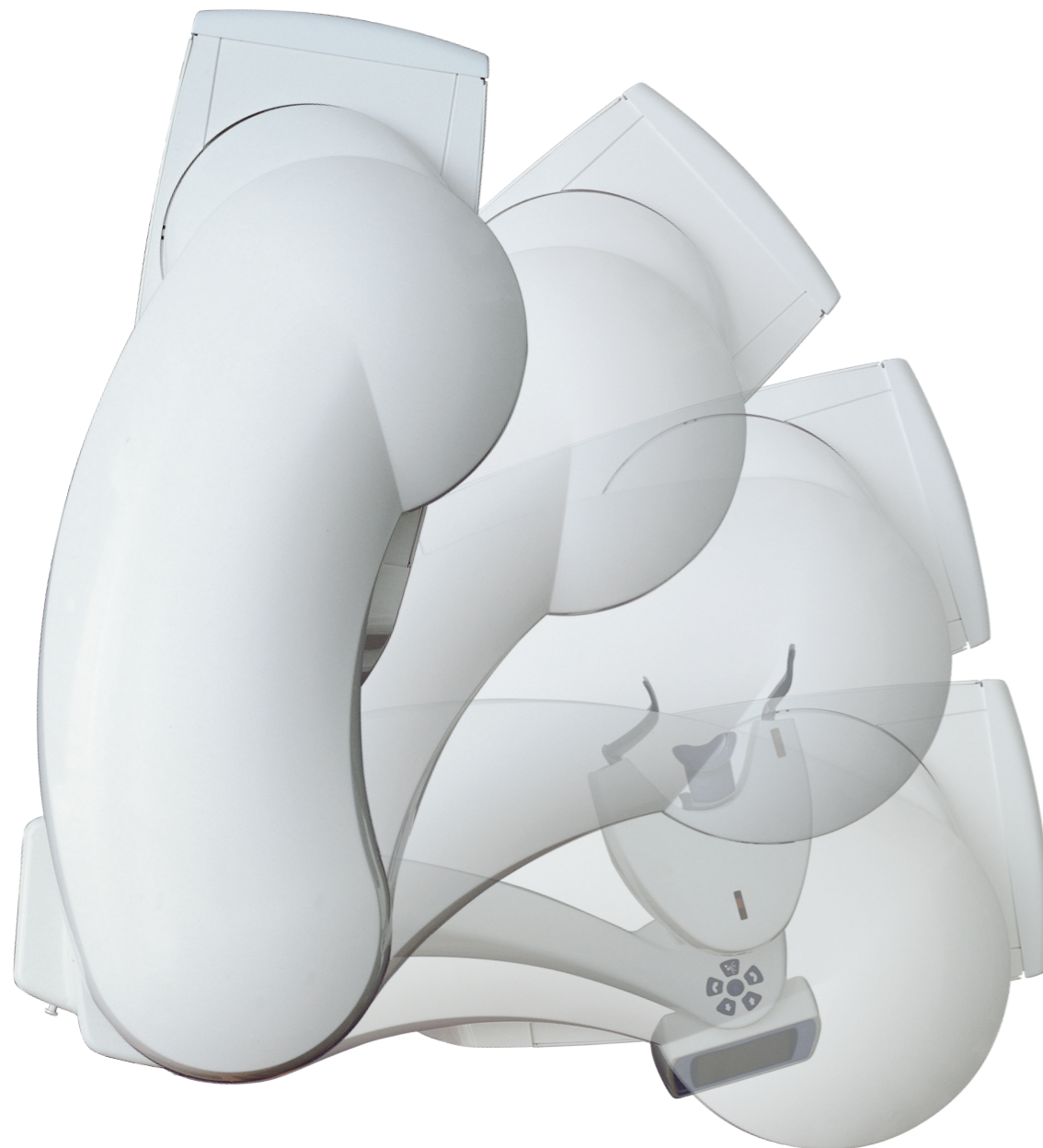
Noise-free images with Planmeca AINO™

Planmeca AINO™ is an intelligent 3D noise filter that removes noise from CBCT images without losing valuable details. The filter is useful in the **Planmeca Ultra-Low Dose™** protocol, where noise is induced due to the lower dose. It also improves image quality in endodontic imaging mode, where noise is inherent as a result of smaller voxel sizes. Planmeca AINO also allows decreased exposure values in all other imaging modes by reducing noise.
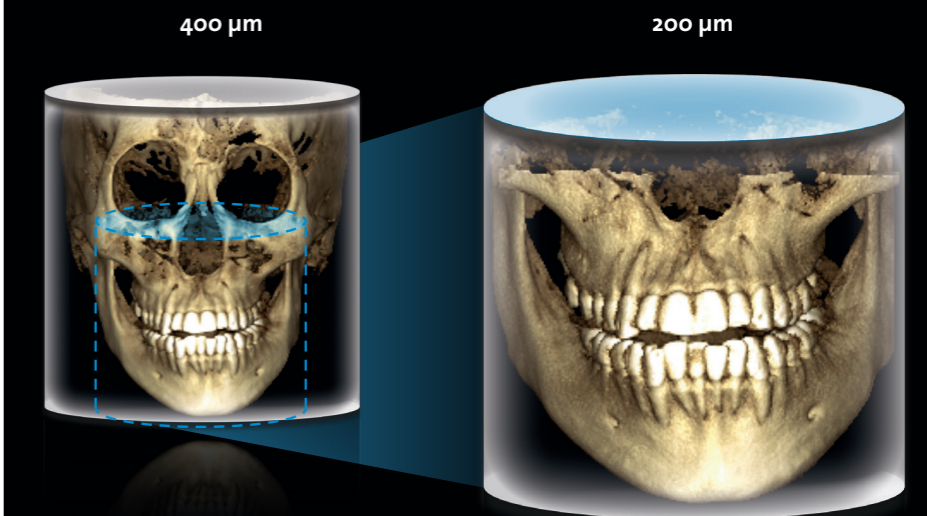
Planmeca ARA™ – enjoy your 3D images without artifacts

Metal restorations and root fillings in the patient's mouth can cause shadows and streaks in CBCT images. The intelligent **Planmeca ARA™** system removes these artifacts efficiently from **Planmeca ProMax® 3D** images with a unique algorithm created from extensive scientific research and a vast amount of clinical patient data.
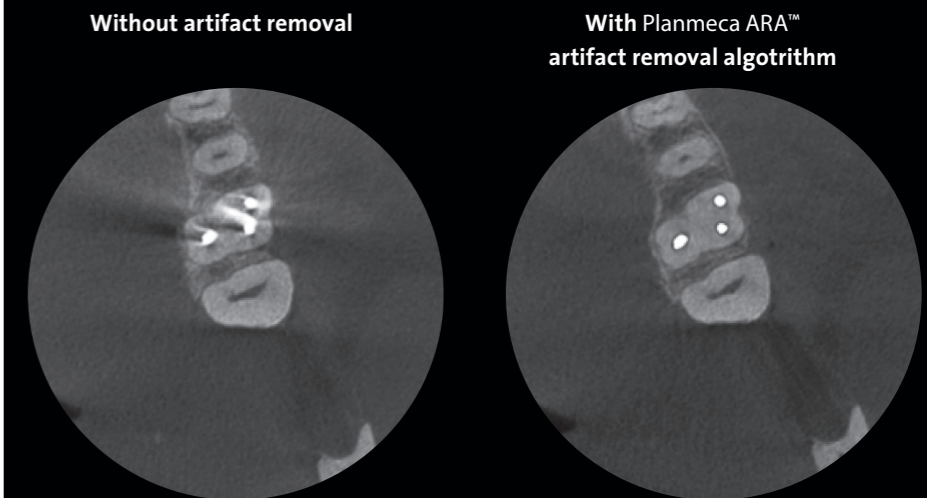
ROI for higher resolution images

The ROI (Region of Interest) reconstruction function can generate a new small voxel volume from the image data of a previously taken large voxel volume. This enables a more precise diagnosis without the need for an additional dose of radiation to the patient.

Without noise removal

With Planmeca AINO™ **noise filter**

Without artifact removal

With Planmeca ARA™ **artifact removal algotrithm**

400 μm

200 μm

Optimal balance between dose and image quality

Planmeca ProMax® 3D units offer great diagnostic value with a very low radiation dose. Thanks to our intelligent and pioneering technology, you can always select the optimal image quality and dose relation based on the clinical need and following the ALARA (As Low As Reasonably Achievable) radiation principle.

Optimised imaging modes for different needs

- **Low dose** mode takes the 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

- **High resolution** gives more detail, when necessary. Voxel size 100 µm

- **Endodontic** mode offers the best resolution with the smallest size. Voxel size 75 µm

Planmeca Ultra-Low Dose™ protocol

Our renowned Planmeca ProMax® 3D units offer a unique Planmeca Ultra-Low Dose™ imaging protocol, enabling CBCT imaging with an even lower patient radiation dose than standard 2D panoramic imaging. This unique 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.

Lower dose than a panoramic image!
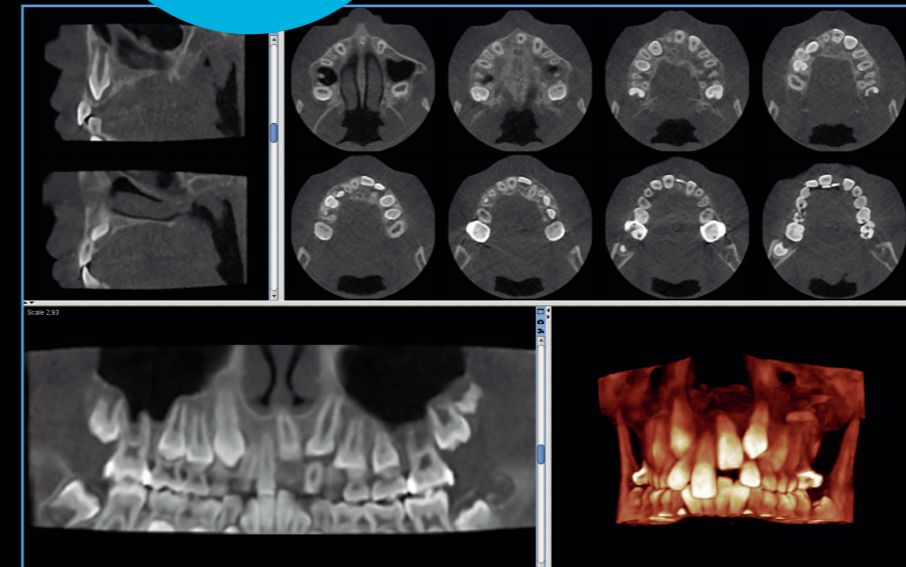
Planmeca Ultra-Low Dose™ image:

- **Planmeca ProMax® 3D Max**
- FOV Ø 85 x 50 mm
- Voxel size 400 µm
- Effective patient dose 4.0 µSv

Ultra Low-Dose Imaging

ø20 x 17 cm

29.2 µSv
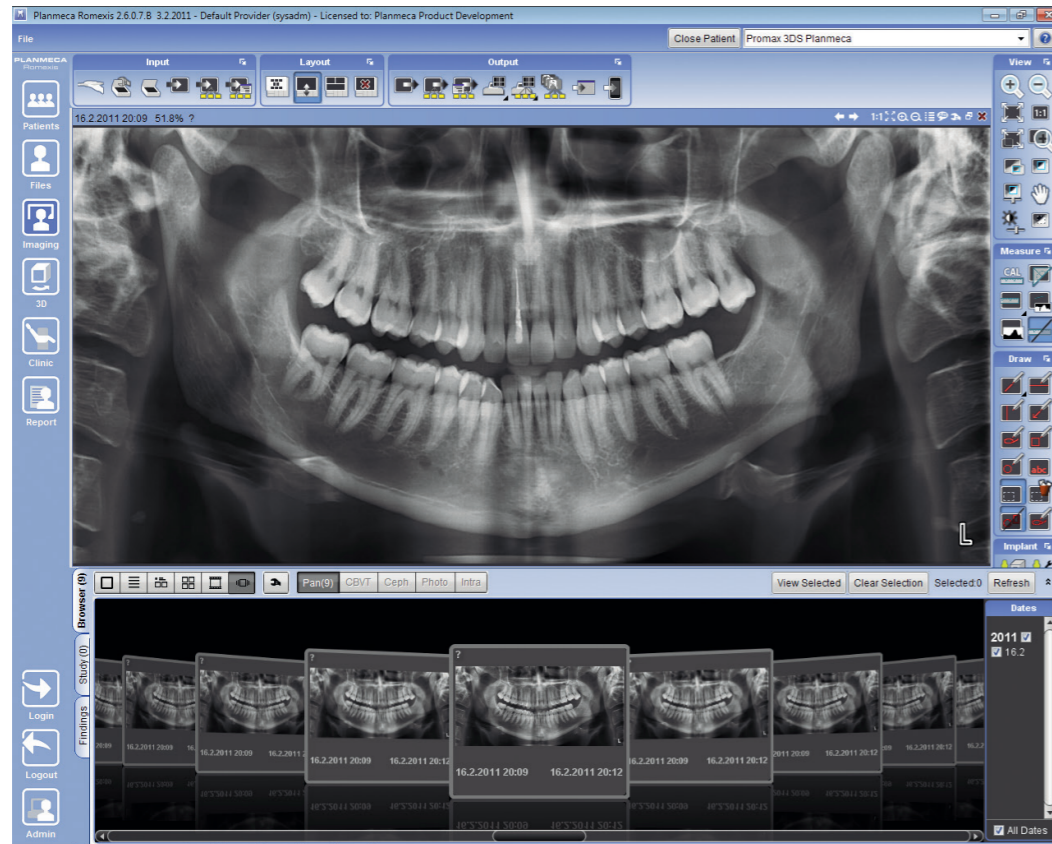7 µSv
14.7 µSv
4 µSv
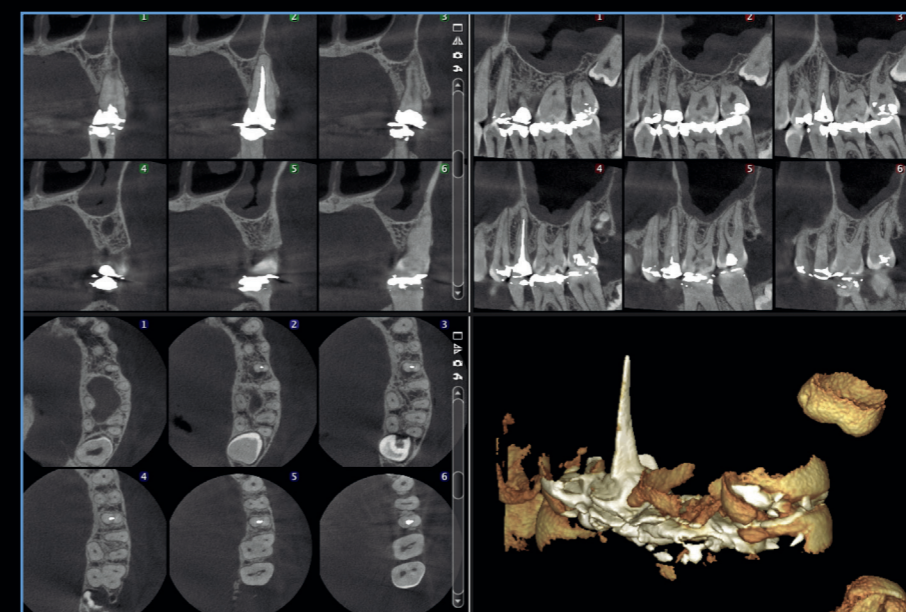
New endodontic mode

- Extremely high resolution with 75 µm voxel size
- Perfect for the smallest details, enabling precise diagnostics and treatment planning

2D and 3D imaging with one sensor

*Our advanced **SmartPan**™ imaging system offers 2D and 3D imaging with the convenience of a single sensor.*


2D SmartPan™ – unique panoramic imaging

• A unique system for 2D imaging

• Uses the same 3D sensor for 2D panoramic imaging, eliminating the need to change sensors

• Users can browse between panoramic images and select the most suitable one for diagnosis

• Same patient positioning and image processing parameters as in 2D imaging programs

2D programs

Standard: Basic panoramic programs	Standard panoramic
	Lateral TMJ (closed & open)
	PA TMJ (closed & open)
	PA sinus
Standard	Child (Pediatric) mode for each standard and optional program to reduce the dose
Standard	Horizontal and vertical segmenting for panoramic program
Standard	True Bitewing
Standard Advanced panoramic programs	Interproximal panoramic
	Orthogonal (perio) panoramic
	Lateral-PA TMJ
	Lateral multiangle TMJ
	PA multiangle TMJ
	PA linear sinus
	Lateral sinus
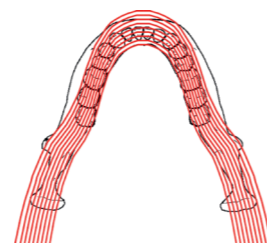
*Normal **SmartPan**™ produces 9 different parallel panoramic layers with about 2 mm shift and one autofocus layer*
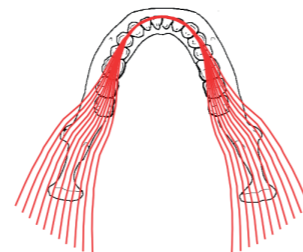
MultiView **SmartPan**™ *(available for **ProMax® 3D Max**) calculates 9 different rotated panoramic layers. This allows adjusting the view angle for improved diagnosis.*

Extraoral bitewings

## What if you could do all your routine diagnostic imaging extraorally?

Planmeca ProMax® extraoral bitewings are ideal for periodontics, elderly and child patients, patients with special needs, patients with a strong gag reflex, and patients in pain. Extraoral bitewings enhance clinical efficiency and take less time and effort than conventional intraoral bitewing imaging.

What are the advantages of extraoral bitewings?

- Ideal for all patients – no sensor positioning required
- Consistently opens interproximal contacts, giving better diagnostic value
- Larger diagnostic area than in intraoral modalities
- More clinical data: canine to third molar
- Enhanced clinical efficiency – takes less time and effort than conventional intraoral bitewings
- Enhanced patient experience and comfort – eliminates gagging

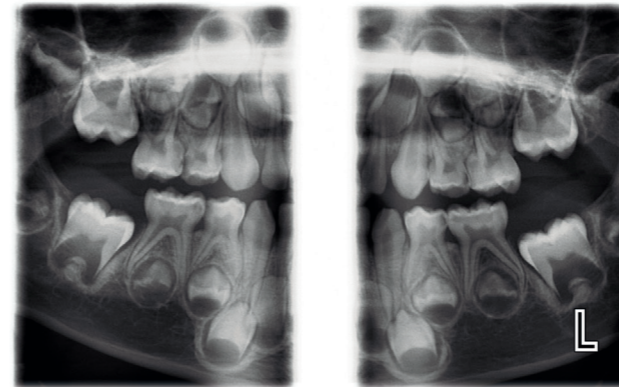## Better diagnostic value with extraoral bitewings
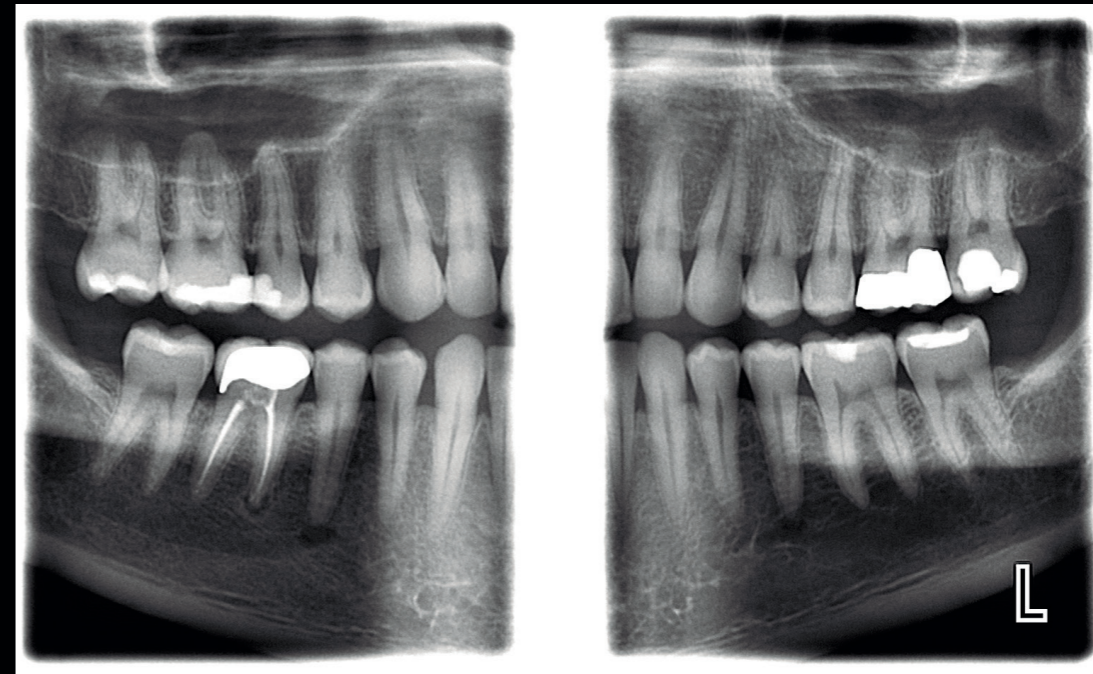
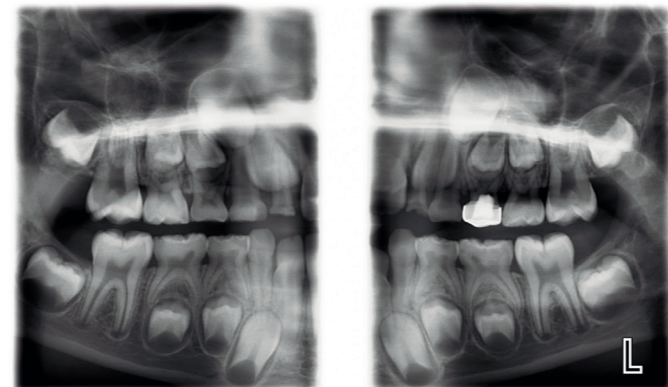**Anatomically Accurate Extraoral Bitewing program, adult**

Standard panoramic image of the same patient as the bitewing above

Anatomically Accurate Extraoral Bitewings only possible with our SCARA3 technology

True Bitewing program, 5-year-old child

True Bitewing program, 8-year-old child

Quality cephalometry for orthodontics

*We offer exceptional equipment and the most advanced software
for all your orthodontic needs.*

Two available options:

One-shot Planmeca ProCeph™ cephalostat

- Effective one-shot cephalostat
- Short exposure time – no motion artefacts, low patient dose
- Image sizes from 18 x 25 cm to 30 x 25 cm

Scanning Planmeca ProMax® cephalostat

- Digital cephalostat that scans your patient's head horizontally using a narrow X-ray beam with an extremely low effective dose of radiation
- Exceptional flexibility in image formats, with field sizes of up to 30 x 27 cm

Cephalometric imaging with Planmeca ProMax® units

- The functional and easy-to-use head positioner provides accurate positioning for all cephalometric projections
- The carbon fiber ear posts and nasal positioner are extremely stable, hygienic, and transparent to radiation
- The unit automatically aligns itself to take cephalometric exposures and then selects a corresponding collimator
- The rotating tube head in the 3D unit eliminates the need to remove the 3D sensor

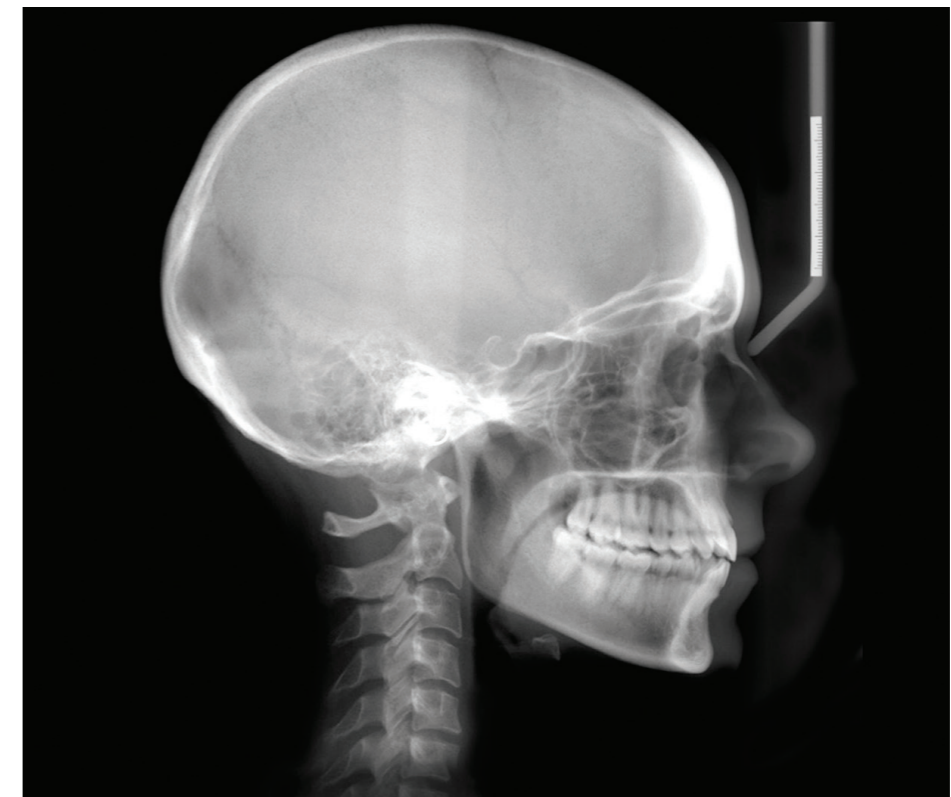Easier and more accurate than ever before

Planmeca Romexis®
software for all images

Mac OS
and Windows
compatible
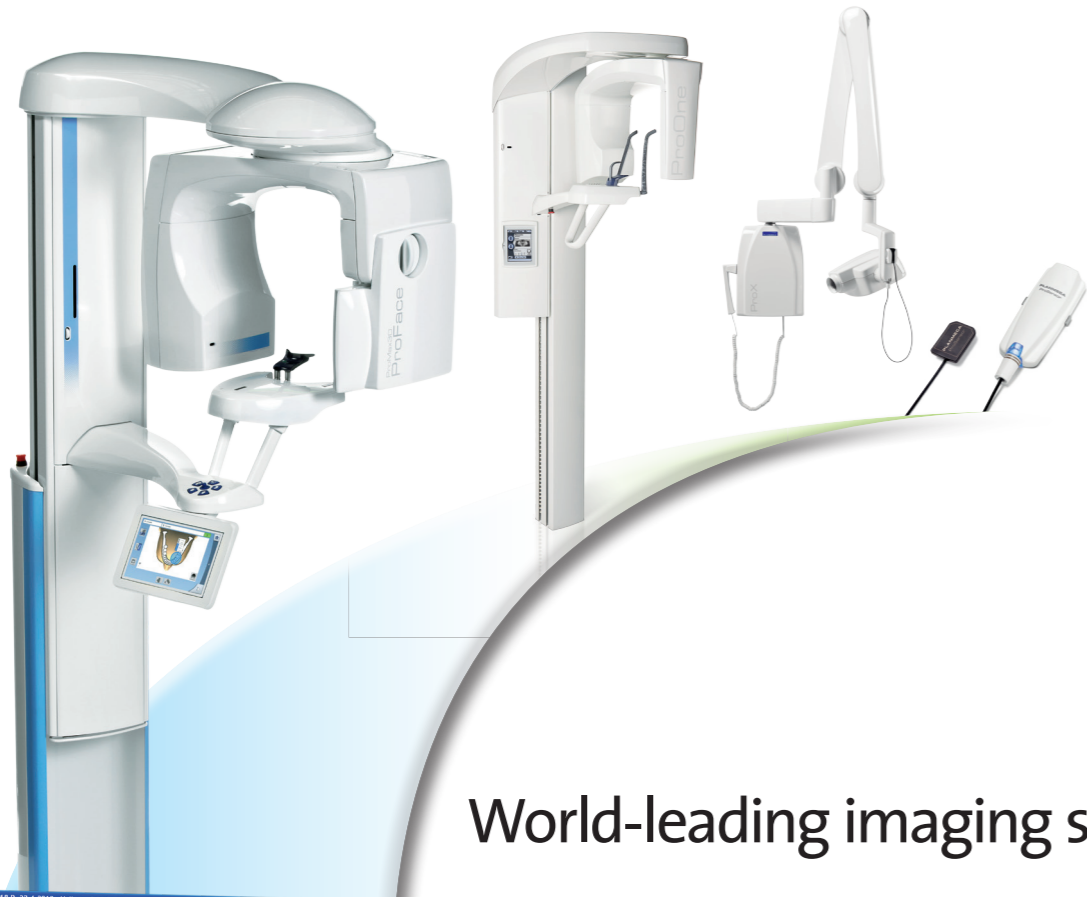
World-leading imaging software

Planmeca Romexis® is a software suite with a rich set of tools to meet the imaging requirements set by any dental facility – from a small clinic to a large hospital. Designed around usability, it supports the most versatile range of 2D and 3D imaging modalities.

Reinventing 3D imaging

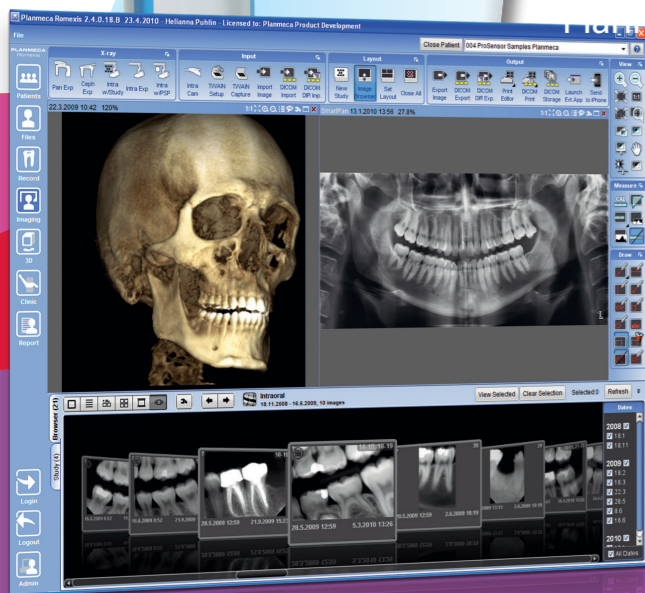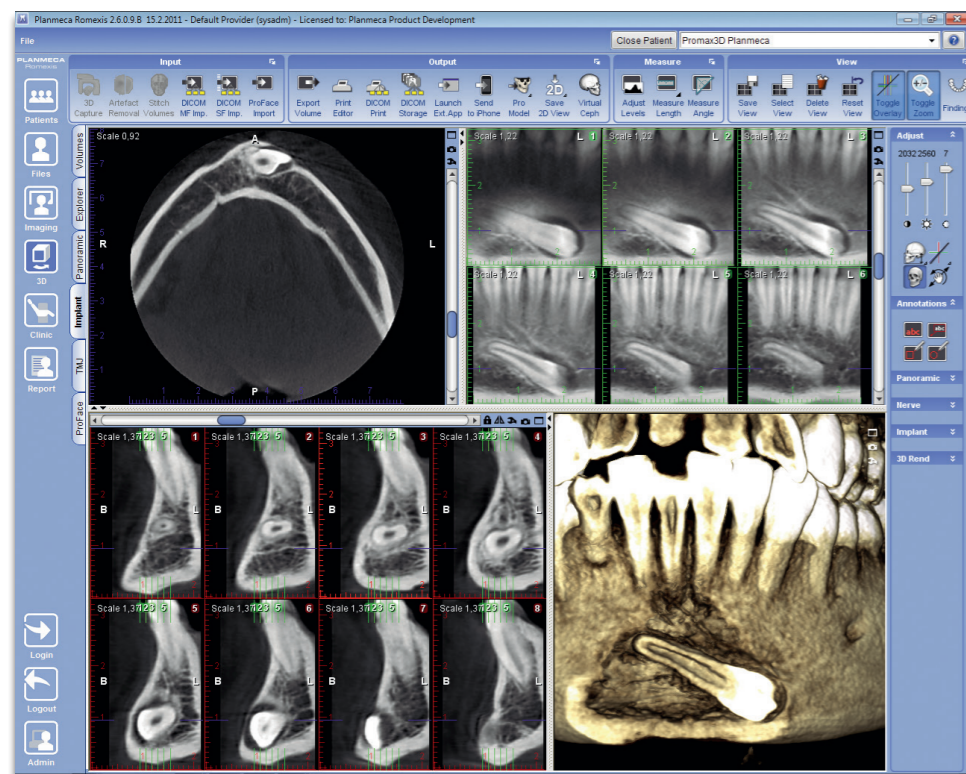*Planmeca Romexis® software offers specially designed tools for implantologists, endodontists, periodontists, orthodontists, maxillofacial surgeons, and radiologists. You can also view your images wherever you are using our mobile apps, and enjoy unmatched compatibility with other systems.*

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.

Easy sharing of results

Studies can be quickly converted into multi-page printouts or handed out with the free **Planmeca Romexis® Viewer** media. Cases can be seamlessly transferred to mobile devices or partner clinics that also use Planmeca Romexis.

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.
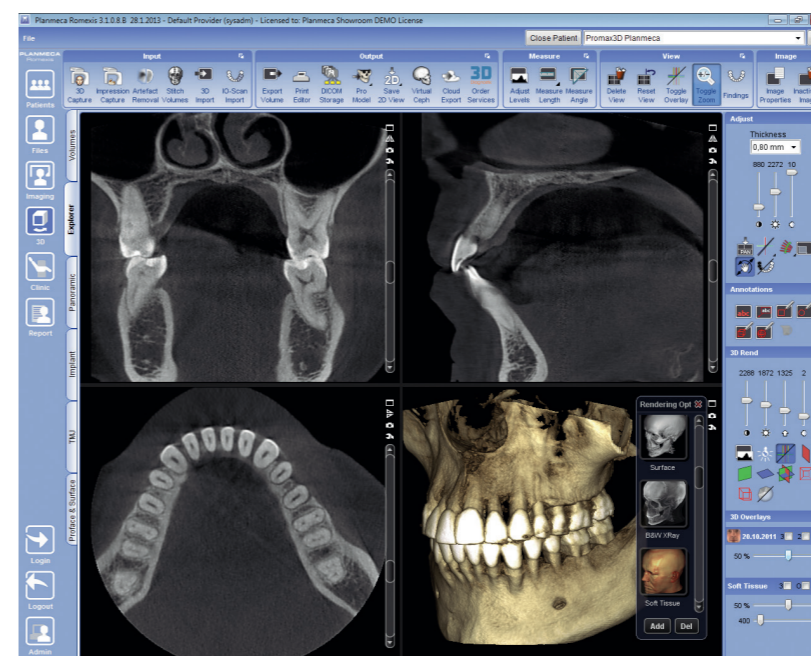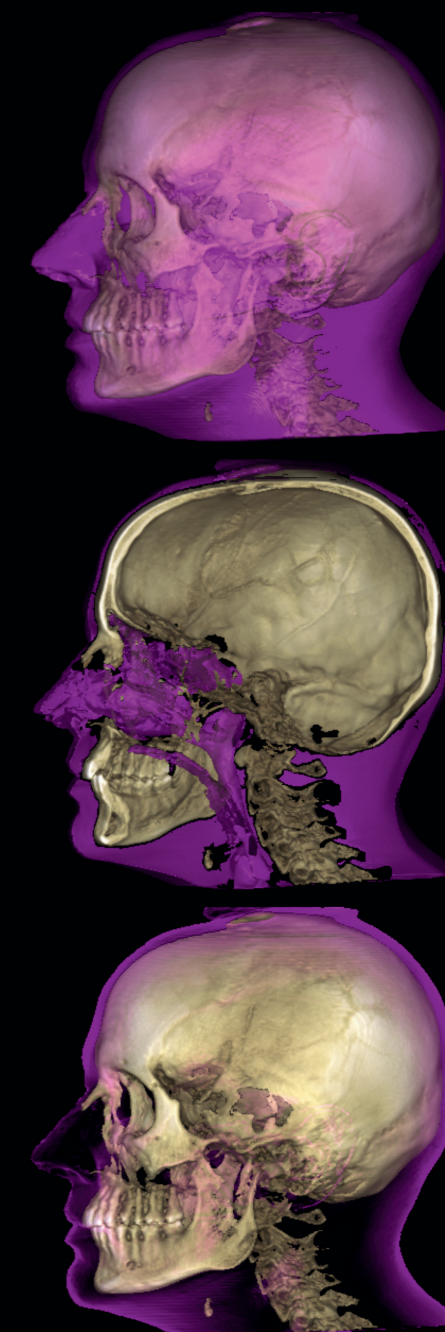
Excellent tools for quality images

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.

Free Planmeca Romexis® Viewer application

Full-featured viewer application
No installation required
Mac OS and Windows support
Distribute to specialists or patients

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.

Implant planning made easy

*Our **Planmeca Romexis® 3D** Implant Planning module offers the most sophisticated tools to meet all the needs of modern implantology.*
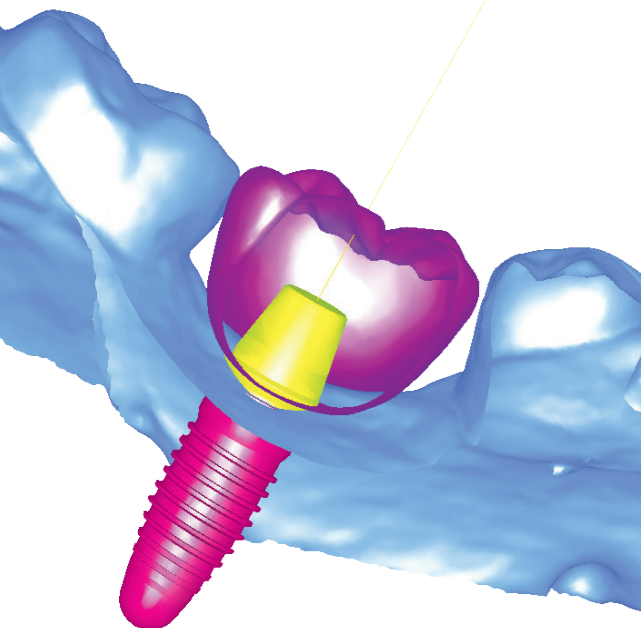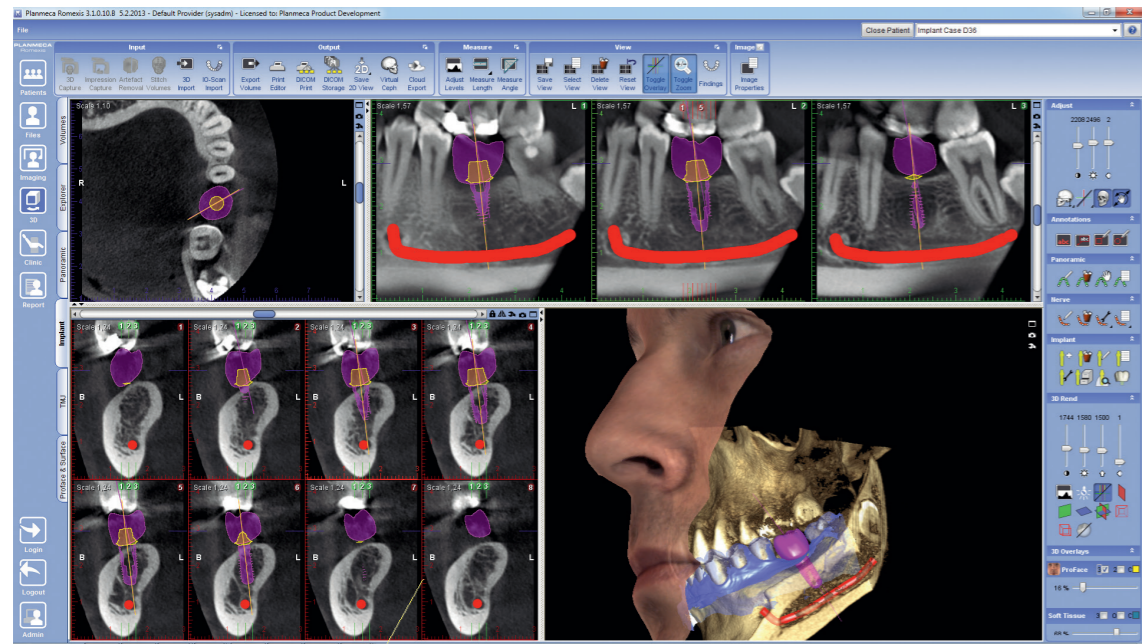
Planmeca Romexis® allows easy planning and verification of implant placement using realistic implant, abutment and crown models from our **Planmeca Romexis®** libraries. You can then import and superimpose a soft-tissue scan and crown design with CBCT data – providing you with the perfect environment for implant planning.

Mark the nerve on the CBCT image

Superimpose the 3D model scan on the CBCT image with Planmeca Romexis® **software**
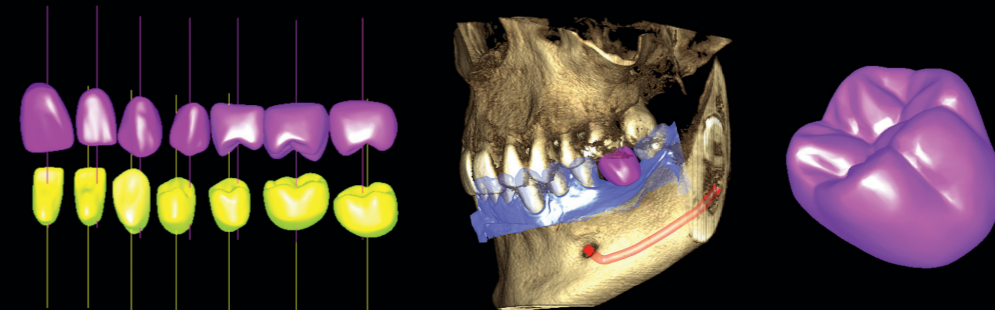
Use the Planmeca Romexis® **crown library or import patient-specific crown from the CAD system to the software**
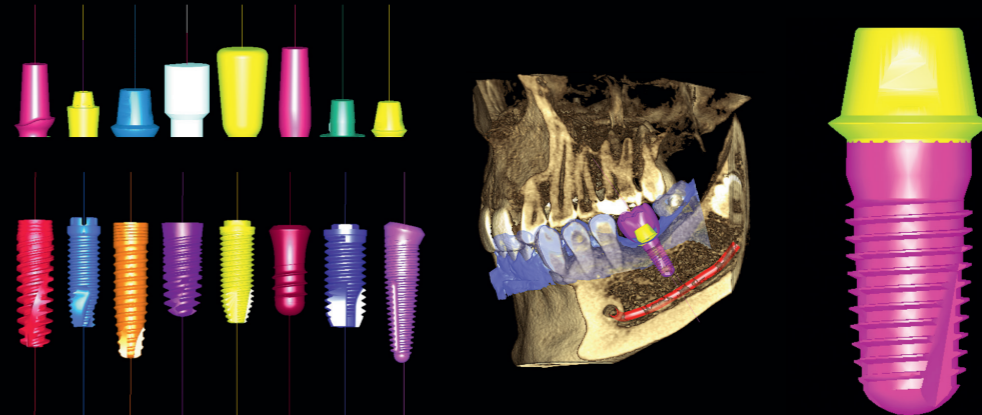
Use the extensive Planmeca Romexis® **implant and abutment library to finalize the plan**

Verify the plan with the implant verification tool

Order the surgical drilling guide from Materialise Dental or 3D Diagnostix using the integrated order form

© Materialise Dental

Your mobile world of imaging

Access your images from anywhere in the world with our advanced mobile application. Consult your colleagues and communicate with your patients easily – wherever you are.

Planmeca iRomexis™

Planmeca iRomexis™ is a mobile companion application for the **Planmeca Romexis®** imaging software. It is specially designed for iPhone and iPad to view 2D and 3D images, 3D models and **Planmeca ProFace®** images.

View all images taken with your Planmeca X-ray unit and communicate with your patients. Carry images on your mobile device – discuss with other professionals wherever you go. Experience a new level of freedom and cooperation with Planmeca iRomexis.

The application can be downloaded from the App Store free of charge.

Available on the
App Store
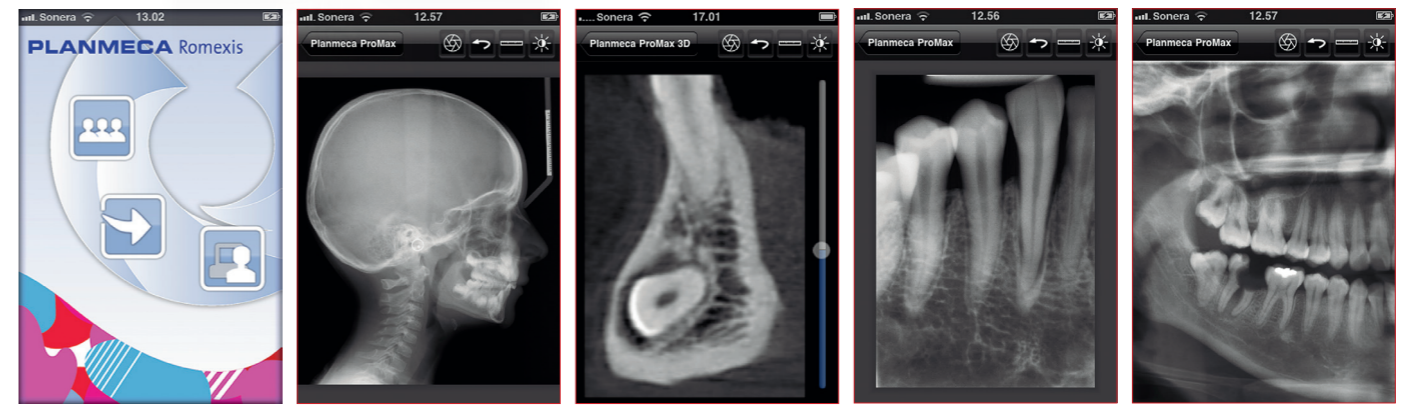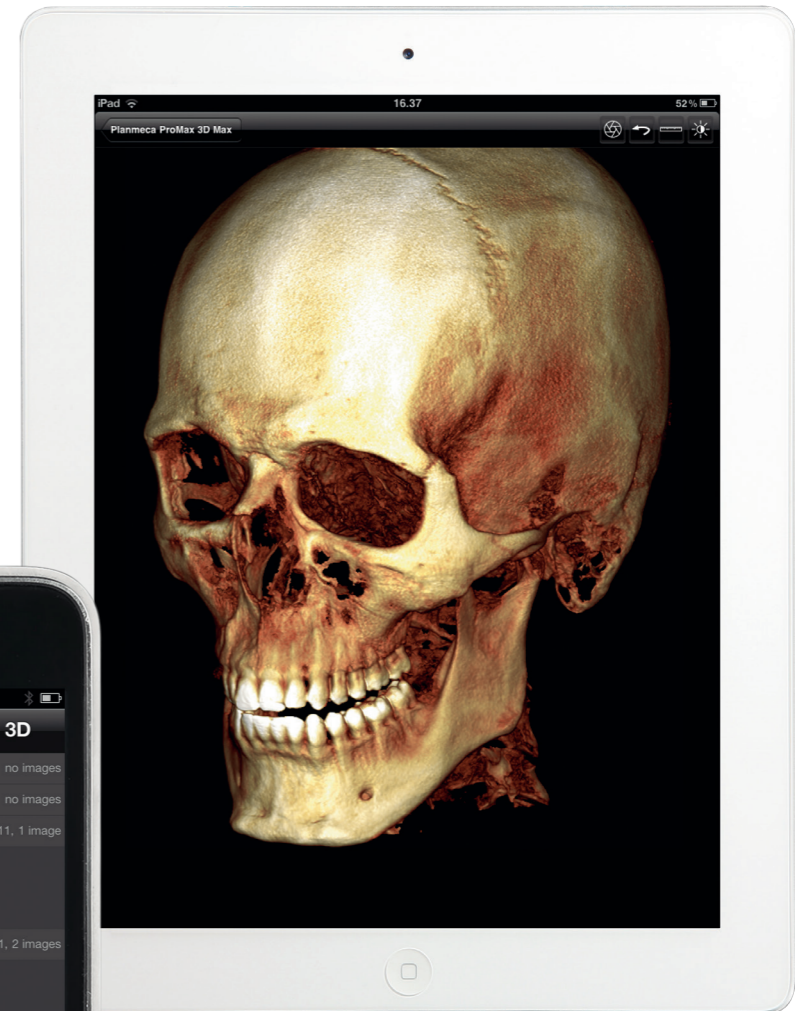
Share images
and expertise online

Planmeca Romexis® Cloud is an advanced image transfer service exclusive to Planmeca Romexis® users. Now you can share images and expertise securely with all partners who use Planmeca Romexis, the free Planmeca Romexis® Viewer or the Planmeca iRomexis™ mobile application.

Planmeca Romexis® Cloud

IMAGE
REFERRAL
INTERPRETATION

Anybody, anywhere

- General practitioner
- Colleague
- Radiologist
- Specialist
- Dental lab
- Patient

Planmeca Romexis® user

- Radiology center
- General practice

Advantages

- Seamlessly integrated into **Planmeca Romexis®** ensuring an efficient workflow – no need for external applications or CDs and DVDs
- Automatic delivery of images and attachments
- Automatic notification to recipient of new cases

- Cases can be sent to any recipient who has an e-mail account
- Secure transfer and storage of information
- Streamline your communication with **Planmeca Romexis® Cloud**

Features

Sending images to recipient

- 2D images: panoramic, cephalometric, photos, intraoral X-ray images
- 3D images: CBCT, 3D photos, surface scans
- All annotations and other elements are included

Sending documents to recipient

- Attach one or more referrals, reports, or other documents

Versatile possibilites for communication

Recipients can download and view images at no cost using:

- **Planmeca Romexis®**
- Free **Planmeca Romexis® Viewer**
- Free **Planmeca iRomexis™** iOS application on iPad and iPhone
- Any valid email account

Planmeca Romexis® **software and** Planmeca Romexis® Cloud **subscription are required for sending new cases. Visit http://online.planmeca.com/ to subscribe and start sending images now.**

Planmeca
ProMax® 3D s

The ProMax® 3D s complies with a multitude of diagnostic requirements using a smaller field of view, such as endodontics and implantology. Basic volume sizes can also be blended together to generate a larger view of patient anatomy, up to 90mm in width.

Volume sizes
Ø5 x 8 cm
Ø5 x 50 mm - Stitched volume 90 x 60 x 130 mm

Planmeca
ProMax® 3D

Planmeca's ProMax® 3D is ideal for a wide range of specialties, with a broad range of imaging views for diagnosis, planning, case presentation, and treatment for the dentist whose practice includes general dentistry, oral surgery, orthodontics, implants, and other specialties.

Volume sizes
Ø80 x 80 mm
Ø80 x 50 mm
Ø50 x 80 mm
Ø50 x 50 mm
Stitched volume 140 x 105 x 80 mm

Planmeca ProMax® 3D Plus

Planmeca ProMax® 3D Plus provides a wide selection of 3D volume sizes in addition to traditional 2D panoramic, extraoral bitewing and cephalometric imaging. This genuine all-in-one unit handles versatile diagnostic tasks without compromising the best practices in imaging.

Volume sizes
Ø140 x 90 mm
Ø140 x 50 mm
Ø90 x 90 mm
Ø90 x 50 mm
Ø70 x 70 mm
Ø70 x 50 mm
Ø40 x 70 mm
Ø40 x 50 mm

Planmeca ProMax®
3D Mid

The ProMax® 3D Mid offers versatile 2D/3D imaging with a wide range of volume sizes ideal for general dentistry, prosthodontics, endodontics, periodontics, and orthodontics, as well as dental and maxillofacial surgery.

Volume sizes
Ø200 x 170 mm
Ø200 x 100 mm
Ø200 x 60 mm
Ø100 x 100 mm
Ø100 x 60 mm
Ø80 x 80 mm
Ø80 x 50 mm
Ø40 x 80 mm
Ø40 x 50 mm

Planmeca ProMax®
3D Max

The Planmeca ProMax® 3D Max is the perfect 3D X-ray unit for any diverse practice, with adjustable single-scan volumes ranging from full maxillofacial imaging to smaller selectable fields of view, as well as dual-scan volumes for full skull imaging. Designed for convenience, it also has the smallest footprint of any large volume CBCT unit and features a short scan time for instant in-office results.

Volume sizes
Ø230 x 260 mm
Ø230 x 160 mm
Ø130 x 160 mm
Ø130 x 130 mm
Ø100 x 130 mm
Ø130 x 90 mm
Ø130 x 55 mm
Ø100 x 90 mm
Ø100 x 55 mm
Ø50 x 55 mm

Stand out with color

Complement the design of your **Planmeca ProMax® 3D** X-ray unit by giving it a personal touch with your favorite colors. Select the perfectly matching shades from our exquisite and inspiring collection and create the looks of your dreams!

Pink   Sky   Sun   Lime   Steel
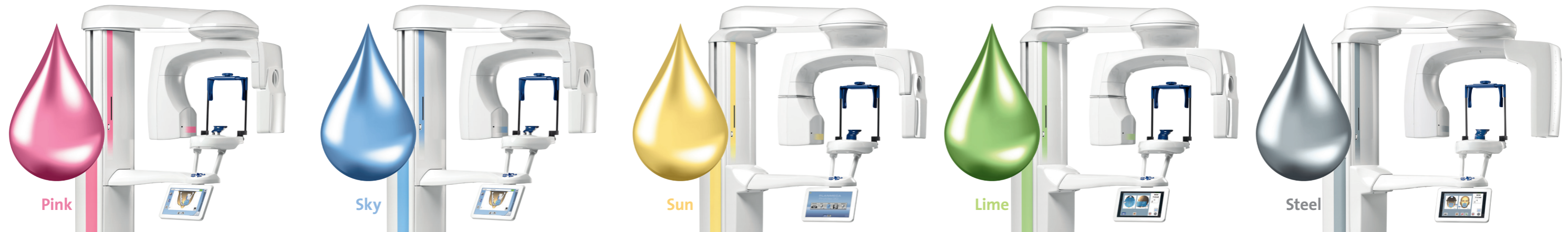
Technical specifications

Technical data

	3D s	3D	3D Plus	3D Mid	3D Max
Anode voltage	54–90 kV	54–90 kV	54–90 kV	54–90 kV	54–96 kV
Anode current	1–14 mA	1–14 mA	1–14 mA	1–14 mA	1–12 mA
Focal spot	0.5 mm, fixed anode	0.5 mm, fixed anode	0.5 mm, fixed anode	0.5 mm, fixed anode	0.6 mm, fixed anode
Image detector	Flat panel	Flat panel	Flat panel	Flat panel	Flat panel
Image acquisition	Single 200 degree rotation	Single 200 degree rotation	200 / 360 degree rotation	200 / 360 degree rotation	210 / 360 degree rotation
Scan time	7.5–27 s	9–37 s	9–33 s	9–33 s	9–40
Reconstruction time	2–25 s	2–25 s	2–30 s	2–55 s	2–55 s

Comparison

	3D s	3D	3D Plus	3D Mid	3D Max
3D Dental programs	Yes	Yes	Yes	Yes	Yes
3D ENT programs	-	-	Yes	Yes	Yes
ProFace 3D face photo	Yes	Yes	Yes	Yes	Yes
3D Models scan	Yes	Yes	Yes	Yes	Yes
2D panoramic imaging	Yes	Yes	Yes	Yes	Yes
2D cephalometric imaging	Yes	Yes	Yes	Yes	-

Dental programs
Volume size (child mode)

|	3D s	3D	3D Plus	3D Mid	3D Max	Voxel size, isotropic
Tooth	Ø50 x 80 mm (Ø42 x 68 mm) Ø50 x 50 mm (Ø42 x 42 mm)	Ø50 x 80 mm (Ø42 x 68 mm) Ø50 x 50 mm (Ø42 x 42 mm)	Ø40 x 50 mm (Ø34 x 42 mm) Ø40 x 70 mm (Ø34 x 60 mm)	Ø40 x 50 mm (Ø34 x 42 mm) Ø40 x 80 mm (Ø34 x 68 mm)	Ø50 x 55 mm (Ø42 x 50 mm)	75 µm*, 100 µm, 150 µm, 200 µm, 400 µm
Teeth		Ø80 x 80 mm (Ø68 x 68 mm) Ø80 x 50 mm (Ø68 x 42 mm)	Ø70 x 50 mm (Ø60 x 42 mm) Ø70 x 70 mm (Ø60 x 60 mm) Ø90 x 50 mm (Ø75 x 42 mm) Ø90 x 90 mm (Ø75 x 75 mm)	Ø80 x 50 mm (Ø68 x 42 mm) Ø80 x 80 mm (Ø68 x 68 mm) Ø100 x 60 mm (Ø85 x 50 mm) Ø100 x 100 mm (Ø85 x 85 mm)	Ø100 x 55 mm (Ø85 x 50 mm) Ø100 x 90 mm (Ø85 x 75 mm)	150 µm, 200 µm, 400 µm
Teeth	triple scan: 90 x 60 x 80 mm	triple scan: 140 x 105 x 80 mm				200 µm, 400 µm
Jaw			Ø140 x 50 mm (Ø140 x 50 mm) Ø140 x 90 mm (Ø140 x 90 mm)	Ø200 x 60 mm (Ø200 x 60 mm) Ø200 x 100 mm (Ø200 x 100 mm)	Ø130 x 55 mm (Ø110 x 50 mm) Ø130 x 90 mm (Ø110 x 75 mm)	200 µm, 400 µm, 600 µm
Face				Ø200 x 170 mm (Ø200 x 170 mm)	Ø100 x 130 mm (Ø85 x 110 mm) Ø130 x 130 mm (Ø110 x 110 mm) Ø130 x 160 mm (Ø110 x 136 mm)	200 µm, 400 µm
Skull					Ø230 x 160 mm Ø230 x 260 mm	400 µm, 600 µm

ENT (Ear, Nose, Throat) programs
Volume size (child mode)

	3D Plus	3D Mid	3D Max	Voxel size, isotropic
Nose	Ø70 x 70 mm (Ø60 x 60 mm)	Ø80 x 80 mm (Ø68 x 68 mm)	Ø100 mm x 90 mm (Ø85 x 75 mm)	200 µm, 400 µm
Sinus	Ø90 x 90 mm (Ø90 x 90 mm) Ø140 x 90 mm (Ø140 x 90 mm)	Ø100 x 100 mm Ø100 x 170 mm Ø200 x 100 mm Ø200 x 170 mm	Ø100 x 90 mm Ø100 x 130 mm Ø130 x 130 mm Ø130 x 160 mm	200 µm, 400 µm, 600 µm
Middle ear	Ø40 x 50 mm (Ø34 x 42 mm) Ø70 x 70 mm (Ø60 x 60 mm)	Ø40 x 50 mm (Ø34 x 42 mm) Ø80 x 80 mm (Ø68 x 68 mm)	Ø50 x 55 mm (Ø42 x 50 mm)	75 µm*, 100 µm, 150 µm, 200 µm
Temporal bone	Ø70 x 70 mm (Ø60 x 60 mm)	Ø80 x 80 mm (Ø68 x 68 mm)	Ø100 x 90 mm (Ø85 x 75 mm)	150 µm, 200 µm
Vertebrae	Ø70 x 70 mm (Ø60 x 60 mm)	Ø80 x 80 mm (Ø68 x 68 mm)	Ø100 x 90 mm (Ø85 x 75 mm) Ø100 x 130 mm (Ø85 x 110 mm)	200 µm, 400 µm
Airways	Ø70 x 70 mm (Ø60 x 60 mm)	Ø80 x 80 mm (Ø68 x 68 mm)	Ø100 x 90 mm (Ø85 x 75 mm) Ø100 x 130 mm (Ø85 x 110 mm) Ø130 x 130 mm (Ø110 x 110 mm) Ø130 x 160 mm (Ø110 x 136 mm)	200 µm, 400 µm

*Requires Endodontic imaging licence, only for the smallest volume

Technical specifications
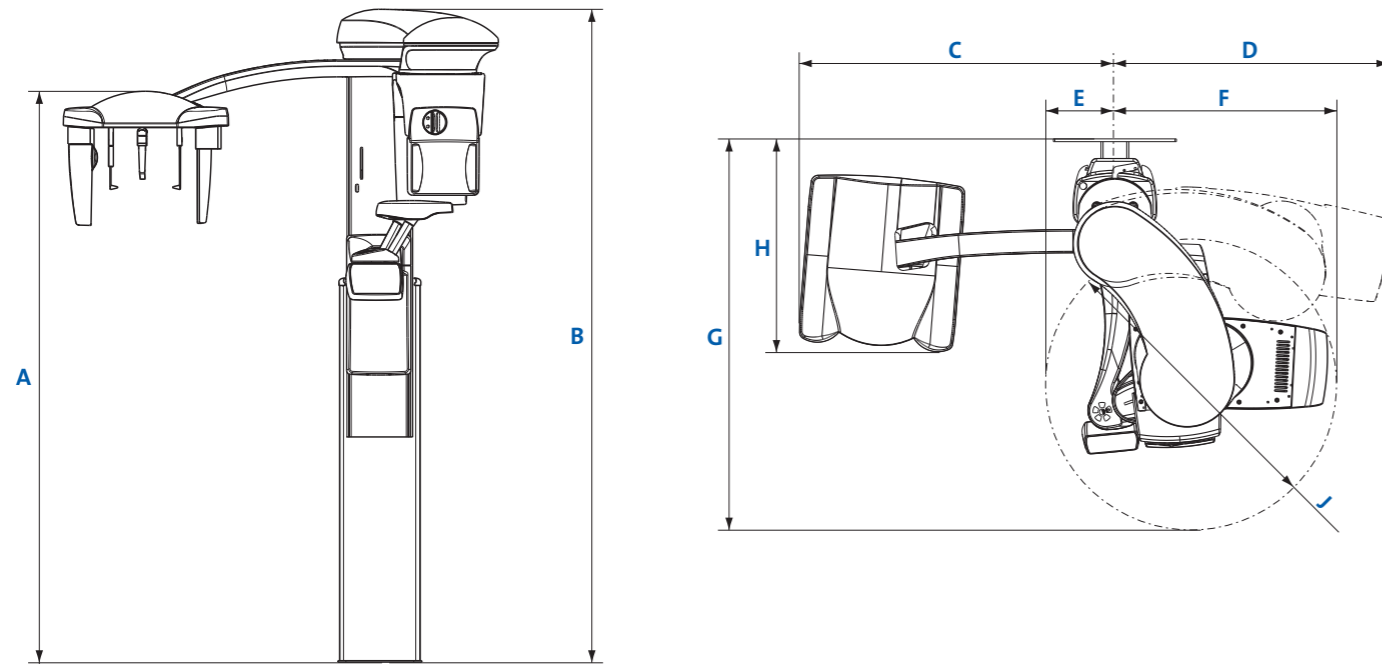
Dimensions

	3D s or 3D	3D Plus or 3D Mid	3D Max
A	1298–2123 mm (51.1–83.5 in.)	1315–2095 mm (51.8–82.5 in.)	-
B	1560–2385 mm (61.4–93.8 in.)	1610–2390 mm (63.4–94.1 in.)	1582–2482 mm (62.3–97.7 in.)
C	1145 mm (45.1 in.)	1130 mm (44.6 in.)	-
D	850 mm (33.5 in.)	930 mm (36.6 in.)	930 mm (36.6 in.)
E	270 mm (10.6 in.)	247 mm (9.7 in.)	222 mm (8.7 in.)
F	698 mm (27.5 in.)	810 mm (32 in.)	788 mm (31 in.)
G	1250 mm (49.2 in.)	1366 mm (53.8 in.)	1351 mm (53.2 in.)
H	777 mm (30.6 in.)	756 mm (29.8 in.)	-
J	Ø820 mm (32.3 in.)	Ø1010 mm (39.8 in.)	Ø1010 mm (39.8 in.)

Physical space requirements

	3D s or 3D	3D s or 3D with cephalostat	3D Plus or 3D Mid	3D Plus or 3D Mid with cephalostat	3D Max
Width	115 cm (44 in.)	200 cm (79 in.)	118 cm (47 in.)	206 cm (82 in.)	116 cm (45.3 in.)
Depth	125 cm (49 in.)	125 cm (49 in.)	137 cm (54 in.)	137 cm (54 in.)	137 cm (54 in.)
Height*	153–243 cm (60–96 in.)	153–243 cm (60–96 in.)	161–239 cm (64–94 in.)	161–239 cm (64–94 in.)	161–239 cm (64–94 in.)
Weight	113 kg (lbs 248)	128 kg (lbs 282)	131 kg (lbs 289)	146 kg (lbs 322)	131 kg (lbs 289)

Minimum operational space requirements

	3D s or 3D	3D s or 3D with cephalostat	3D Plus or 3D Mid	3D Plus or 3D Mid with cephalostat	3D Max
Width	150 cm (59 in.)	215 cm (85 in.)	158 cm (63 in.)	225 cm (89 in.)	158 cm (63 in.)
Depth	163 cm (64 in.)	163 cm (64 in.)	175 cm (69 in.)	175 cm (69 in.)	175 cm (69 in.)
Height*	243 cm (96 in.)	243 cm (96 in.)	239 cm (94 in.)	239 cm (94 in.)	239 cm (94 in.)

*The maximum height of the unit can be adjusted for offices with limited ceiling space.

Example installation

Included in delivery	Planmeca ProMax 3D unit with 3D reconstruction server
Minimum set up	Client workstation and database server • Planmeca Romexis 3D Explorer • Database server • Planmeca Romexis Image Database The client workstation and database server can also be in separate computers. (preferred method)
Additional equipment	Additional diagnostic workstations with different software configurations Planmeca Romexis tools: • 3D Explorer • 3D Cross Sections module • 3D TMJ module • 3D Implant Planning module • DICOM module

Planmeca Romexis® imaging software

Supported 2D modalities	Intraoral
	Panoramic
	Cephalometric
	2D linear tomography
	Photos
	Stack images (CBCT slices and panoramic slices)
Supported 3D modalities	3D CBCT
	3D photo
	3D surface scan
Supported photo sources	Intraoral camera
	Digital camera or scanner (import or TWAIN capture)
Operating systems	Win Vista Pro/ Win 7/ Win 8
	Win 2003 Server /Win 2008 Server /Win 2012 Server
	Mac OS X*
	For detailed information please see system requirements of Planmeca Romexis www.planmeca.com
	*Cephalometric Analysis module and 3D Ortho Studio module are not supported on Mac OS
Image formats	JPEG or TIFF (2D image)
	DICOM (2D and 3D image)
	STL (3D image)
	TIFF, JPEG, PNG, BMP (import/export)
Image size	2D X-ray image: 1–9 MB
	3D X-ray image: typically 50 MB–1 GB
Installation options	Client–Server
	Java Web Start deployment
DICOM 3.0 support	DICOM Import/Export
	DICOM DIR Media Storage
	DICOM Print SCU
	DICOM Storage SCU
	DICOM Worklist SCU
	DICOM Query/Retrieve
	DICOM Storage Commitment
	DICOM MPPS
Interfaces	TWAIN Client
	PMBridge (patient information and images)
	InfoCarrier (patient information)
	Datagate (patient and user information)
3rd party software integrations	Dolphin Imaging
	Nobel Clinician
	Materialise Dental Simplant
	Straumann coDiagnostiX
	Cybermed N-Liten
	Others possible through Quicklaunch

Planmeca designs and manufactures a full line of high technology dental equipment, including dental care units, panoramic and intraoral X-ray units, and digital imaging products. Planmeca, the parent company of the Finnish Planmeca Group, is strongly committed to R&D, and is the largest privately held company in the field.

PLANMECA

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