3D Imaging



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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 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 nearly 50 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 X-ray 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



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Planmeca Viso[™] 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 fulfills the needs of demanding maxillofacial imaging in all clinical environments, from private clinics to large hospitals.



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 photos with the optional software module. These photos can be combined with model scans of patients to enrich 3D treatment plans.

Planmeca PlanID[™] connectivity

With integrated RFID capabilities, Planmeca Viso opens up new possibilities for patient and user identification with this option.

Intelligent patient support

The unit's occipital support provides stability without compromising patient comfort and offers an unimpeded view of facial tissue.

Live virtual FOV positioning

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



Planmeca Viso[™] Family

Our Planmeca Viso[™] CBCT imaging unit family now consists of two models — both offering exceptional image quality, numerous cutting-edge features, and premium usability. The units are capable of three-dimensional imaging, as well as panoramic, extraoral bitewing, and cephalometric imaging. The next generation of CBCT imaging is here in full force!

Planmeca Viso[™] G5

A Ø20 x 10 cm scan covering the entire jaw area can be acquired in a single scan. The volume size can be adjusted freely from Ø3 x 3 to Ø20 x 17 cm.

Planmeca Viso[™] G7

A Ø30 x 19 cm scan covering the entire maxillofacial area can be acquired in a single scan. The volume size can be adjusted freely from Ø3 x 3 to Ø30 x 30 cm.



Planmeca Viso[™] G5



Planmeca Viso™ G7

	G5	G7
Maximum volume, single scan	Ø200 x 100 mm	Ø300 x 190 mm
Maximum volume	Ø200 x 170 mm	Ø300 x 300 mm
Planmeca CALM™ movement artifact 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*	✓	<u>ب</u>
2D panoramic imaging	 ✓ 	 ✓
Cephalometric imaging, one-shot*	 ✓ 	~
*Optional equipment		

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.



Planmeca ProMax[®] 3D s

Planmeca ProMax[®] 3D Classic

	3D s	3D LEC	3D Classic	3D Plus	3D Mid
Planmeca CALM™ movement artifact correction	~		✓	 	v
Planmeca Ultra Low Dose™ imaging	v		~	~	v
Endodontic mode	v	~	~	~	v
3D dental programs	v	~	~	~	v
BD ENT programs*				~	~
3D face photo*	v	~	~	~	v
3D models scan*	v	~	~	~	v
SureSmile certification*		~	~		~
4D jaw motion*					~
2D panoramic imaging	×	~	~	~	~



Planmeca ProMax[®] 3D Plus

Planmeca ProMax[®] 3D Mid

	3D s	3D LEC	3D Classic	3D Plus	3D Mid
Cephalometric imaging, scanning	✓	✓	 	✓	
Cephalometric imaging, one-shot*	v	✓	 	✓	~
Maximum volume, single scan	Ø50 x 80 mm or Ø80 x 50 mm	Ø80 x 80 mm	Ø80 x 80 mm	Ø200 x 100 mm	Ø200 x 100 mm
Extended volume, single scan		Ø110 x 80 mm	Ø110 x 80 mm		
Maximum volume	150 x 100 x 50 mm		140 x 105 x 80 mm		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 our medium to large field-of-view 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 digitized models are available immediately and stored for later use.



Airways visualization

Visualize 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.





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 artifacts.

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 optimized image quality for challenging targets — reducing artifacts and ensuring higher contrast images.

Optimized 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 optimized 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





Never miss a shot with Planmeca CBCT units

Movement, metal artifacts, and small voxel sizes are generally recognized 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 utilized afterwards to achieve reliable results. The choice is yours!

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Movement artifact 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 artifact correction



With the Planmeca CALM[™] movement removal algorithm

Metal artifact reduction with Planmeca ARA[™]

Planmeca ARA[™]

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





With the Planmeca ARA™ artifact 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

3D imaging with an even lower dose than panoramic 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 systems always allow 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).

Download the Ultra Low Dose study: 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:
 - Progress 3D X-rays with lower radiation than a traditional 2D panoramic
 - Defining the amount of bone around the root
 - Localizing 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 Classic

- + FOV Ø 50 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 16 µSV

The optimal 3D unit for every imaging need

		Normal mode		Low dose mode	
		Voxel size	Effective patient dose with ULD	Voxel size	Effective patient dose with ULD
	Planmeca ProMax [®] 3D s				
	Ø 5 x 5 cm – Tooth upper incisors	200 µm	9 µSv	400 µm	3 µSv
	Ø 5 x 8 cm – Tooth incisors	200 µm	22 μSv	400 μm	8 µSv
	Planmeca ProMax [®] 3D Clas	sic and	3D LEC		
	Ø 8 x 8 cm – Teeth	200 μm	30 μSv	400 μm	9 μSv
	Planmeca ProMax [®] 3D Plus	5			
	Ø 20 x 10 cm – Jaw	400 μm	25 μSv	600 μm	10 μSv
	Planmeca ProMax [®] 3D Mid				
	Ø 10 x 10 cm – Teeth	200 µm	40 µSv	400 µm	8 µSv
	Ø 20 x 10 cm – Jaw	400 µm	25 µSv	600 µm	10 µSv
	Ø 20 x 17 cm – Face	400 µm	39 µSv	600 µm	16 μSv
Ion I	Planmeca Viso™ G7 and Vis	so™ G5			
	Ø 10 x 10 cm – Teeth	450 μm	101 µSv	450 μm	25 μSv
	Ø 14 x 10 cm – Jaw	600 µm	61 µSv	600 µm	15 μSv
	Ø 16 x 16 cm – Face	600 μm	51 μSv	600 μm	13 µSv

Standard 2D panoramic effective patient dose is approximately 15 $\mu\text{Sv}.$

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



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

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.





Real-time jaw movement – in 3D

Planmeca 4D[™] Jaw Motion is the only true CBCT integrated solution for tracking, visualizing, and analyzing jaw movement in 3D. It offers incomparable visualization of mandibular 3D movements in real-time — creating a fourth dimension in diagnostics.



Key components of Planmeca 4D[™] Jaw Motion

Planmeca 4D[™] Jaw Motion adds a new dimension to 3D data by visualizing a patient's jaw movement. First, a CBCT image (e.g. a Planmeca Ultra Low Dose[™] image) is acquired with a Planmeca 3D unit with the patient wearing dedicated tracking devices. Integrated Planmeca ProFace[®] cameras are then used to track lower jaw movements in relation to the upper jaw. All movements are visualized, analyzed, and stored to the Planmeca Romexis[®] imaging software in real time.

Applications:

Due to its capability to visualize mandibular jaw and condyle movement, **Planmeca 4D[™] Jaw Motion** can be a supporting tool for:

- Temporomandibular (TMD) examinations
- Preoperative planning and postoperative treatment verifications
- Articulator programming

Key features:

- The only CBCT integrated jaw tracking solution
- Track, visualize, and record jaw movement in 3D
- Visualize movements in the Planmeca Romexis® software in real time
- Record movements for later use and analysis
- Measure and visualize the movement paths of points of interest in frontal, sagittal, and axial movement graphs and in 3D

- Align digital dental models with a CBCT image for improved visualization
- Export movement and measurement information to 3rd party software for analyses and treatment planning



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 Autoocus feature enables practically error-free patient positioning and reduces the need for retakes. The result is high-quality and easily reproducible images — every time.

2D SmartPan[™] — unique panoramic imaging

Our advanced SmartPan[™] imaging system uses the same 3D sensor also for 2D panoramic imaging.

SmartPan produces 9 different parallel panoramic layers with an about 2 mm shift and one autofocus layer.



2D programs

Standard: Basic panoramic	Standard panoramic		
programs	Lateral TMJ (closed & open)		
	PA TMJ (closed & open)		
	PA sinus		
Standard	Child (Pediatric) mode for each standard and optional program to reduce the dose		
Optional	Horizontal and vertical segmenting for panoramic program		
Optional	True Bitewing		
Optional Optional:	True Bitewing Interproximal panoramic		
Optional Optional: Advanced panoramic programs	True Bitewing Interproximal panoramic Orthogonal (perio) panoramic		
Optional Optional: Advanced panoramic programs	True Bitewing Interproximal panoramic Orthogonal (perio) panoramic Lateral-PA TMJ		
Optional Optional: Advanced panoramic programs	True Bitewing Interproximal panoramic Orthogonal (perio) panoramic Lateral-PA TMJ Lateral multiangle TMJ		
Optional Optional: Advanced panoramic programs	True Bitewing Interproximal panoramic Orthogonal (perio) panoramic Lateral-PA TMJ Lateral multiangle TMJ PA multiangle TMJ		
Optional Optional: Advanced panoramic programs	True Bitewing Interproximal panoramic Orthogonal (perio) panoramic Lateral-PA TMJ Lateral multiangle TMJ PA multiangle TMJ PA linear sinus		
Optional Optional: Advanced panoramic programs	True Bitewing Interproximal panoramic Orthogonal (perio) panoramic Lateral-PA TMJ Lateral multiangle TMJ PA multiangle TMJ PA linear sinus Lateral sinus		

Imagine your X-ray unit recognizing your patient's anatomy

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



Better diagnostic value with extraoral bitewings





True Bitewing program, adult





True Bitewing program, 5-year-old child

- Ideal for all patients no sensor positioning required
- · Consistently opens interproximal contacts, giving better diagnostic value
- See 24% more teeth versus intraoral bitewings¹
- More clinical data: canine to third molar
- Clinically proved to be effective at caries detection¹
- Reveal the alveolar crest of both arches consistently¹
- Better at detecting bone loss than intraoral bitewings¹
- View apices of each tooth doubling as a periapical
- Enhanced clinical efficiency takes less time and effort than conventional intraoral bitewings
- Enhanced patient experience and comfort eliminates gagging

¹ "Accuracy of extraoral bitewing radiography in detecting proximal caries and crestal bone loss", by doctors Micah Chan, DDS, MS, Tenzin Dadul, MDS, Robert, Langlais, DDS, MS, David Russell, DDS, Mansur Ahmad, BDS, PhD. University of Minnesota.

Quality cephalometry for orthodontics

Our exceptional equipment and advanced software have been designed to meet all your orthodontic needs.

Cephalometric imaging with Planmeca 3D X-ray units

- The functional and easy-to-use head positioner ensures 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
- Dedicated collimation options for pediatric imaging

Two equipment options:

One-shot Planmeca ProCeph™ cephalostat

- Effective one-shot cephalostat
- Short exposure time no motion artifacts, low patient dose
- Image sizes from Ø18 x 20 cm to Ø30 x 25 cm
- Available for all Planmeca 3D X-ray units

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 Ø30 x Ø27 cm







Two options for cephalometric analyses:

Planmeca Romexis® Cephalometric Analysis module

Take advantage of the **Planmeca Romexis® Cephalometric Analysis** module's wide range orthodontic and orthognathic tools.

- Automatic landmark identification
- Tools for creating cephalometric analyses, superimpositions, and surgical treatment plans (VTO) in minutes
- Fully customizable analyses, norms, and reports
- Microsoft Excel export and import function
- Compatible with the Windows operating system

Online automatic analysis service

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

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

Professionals proudly present the Planmeca ProMax[®] 3D family



Which one is right for you?

Planmeca ProMax[®] 3D s

Planmeca ProMax® 3D s is an ideal 3D unit for capturing small details. It is perfect for single implant, endodontic, and wisdom tooth cases.

Planmeca ProMax[®] 3D LEC

The **Planmeca ProMax® 3D** LEC offers a variety of volume sizes for use in general dentistry in addition to one of the industry's highest resolutions at 75 µm, perfect for endodontists. It is an affordable entry point into 3D imaging.

Planmeca ProMax[®] 3D Classic

The **Planmeca ProMax® 3D Classic** imaging sensor covers the whole dentition area, so the unit gives a clear view of the mandible and maxilla.

Planmeca ProMax[®] 3D Plus

The **Planmeca ProMax**[®] **3D Plus** offers a wide variety of different volume sizes and is a great choice for any imaging need.

Planmeca ProMax[®] 3D Mid

Thanks to its wide volume size selection, **Planmeca ProMax**[®] **3D Mid** handles a wide range of diagnostic tasks without compromising best practices.

Planmeca ProMax[®] 3D s



Planmeca CALM™ movement artifact correction	v
 Planmeca Ultra Low Dose™ imaging	v
Endodontic mode	v
3D dental programs	v
3D face photo	~
3D models scan	~
2D panoramic imaging	~
Cephalometric imaging, scanning	~
Cephalometric imaging, one-shot	~

Volume sizes

Ø80 x 50 mm	
Ø50 x 80 mm	
Ø50 x 50 mm	
Ø150 x 100 x 50 mm	

Planmeca ProMax[®] 3D Classic and 3D LEC



	LEC	Classic
Planmeca CALM™ movement artifact correction		~
- Planmeca Ultra Low Dose™ imaging	-	✓
Endodontic mode	~	✓
3D dental programs	~	~
3D face photo	~	✓
3D models scan	~	✓
SureSmile certification	~	~
2D panoramic imaging	~	~
Cephalometric imaging, scanning	~	~
Cephalometric imaging, one-shot	~	v

Volume sizes

Ø80 x 80 mm
Ø80 x 50 mm
Ø50 x 80 mm
Ø50 x 50 mm
extended volume: Ø110 x 80
Ø140 x 105 x 80 mm

Planmeca ProMax[®] 3D Plus



Planmeca CALM™ movement artifact correction	✓
 Planmeca Ultra Low Dose™ imaging	v
Endodontic mode	v
3D dental programs	v
3D ENT programs	v
3D face photo	v
3D models scan	v
2D panoramic imaging	v
Cephalometric imaging, scanning	v
Cephalometric imaging, one-shot	

Volume sizes
Ø200 x 100 mm
Ø200 x 60 mm
Ø160 x 100 mm
Ø160 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 Mid



Planmeca CALM™ movement artifact correction	✓
 Planmeca Ultra Low Dose™ imaging	 ✓
 Endodontic mode	 ✓
	 ✓
3D ENT programs	v
3D face photo	v
3D models scan	v
SureSmile certification	v
4D jaw motion	v
2D panoramic imaging	v
Cephalometric imaging, scanning	v
Cephalometric imaging one-shot	<u> </u>

Volume sizes	
Ø200 x 170 mm	
Ø200 x 100 mm	
Ø200 x 60 mm	
Ø160 x 100 mm	
Ø160 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 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







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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.















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.

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 visualized, measured and utilized 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.

Model Analyzer

The module provides convenient tools for visualizing and analyzing digital impressions and streamlines the direct scan and send workflow for Planmeca intraoral scanners. The **Romexis® Model Analyzer** module is an ideal choice for everyone working with digital impressions. Scanned digital impressions can be sent to 3rd party service providers with ease.

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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.

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 or patient. You can share images and expertise securely with all partners who use Planmeca Romexis, the free *Planmeca Romexis*[®] *Viewer*, or the *Planmeca mRomexis*[™] mobile tablet application.

Versatile possibilites for communication

- External applications, CDs and DVDs are history images can now be sent directly from Planmeca Romexis[®]
- The Romexis software and a Planmeca Romexis[®] Cloud subscription are required to send new cases — recipients only need an email account
- · Dental labs can receive CAD/CAM cases without additional software
- Cases can also be viewed with the Planmeca Romexis[®] Viewer or Planmeca mRomexis[™] applications

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

Receive cases with free Planmeca Romexis[®] Viewer application

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

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

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







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 capture 2D X-ray images with Planmeca equipment, or to take photos with the tablet camera.

Download the Planmeca mRomexis application for iOS and Android from the App Store or Google Play.



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 **Romexis® Clinic Management** software offers several quality assurance and service benefits for local users, whereas **Romexis® Insights** allows 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
- Maximize equipment uptime with fast and accurate trouble-shooting



Stand out with color

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



Technical specifications

Technical data

	ProMax 3D s	ProMax 3D LEC	ProMax 3D Classic	ProMax 3D Plus	ProMax 3D Mid	Viso G7	Viso G5
Anode voltage	60–90 kV	60–90 kV	60–90 kV	60–90 kV	60–90 kV	60–120 kV	60–120 kV
Anode current	1–14 mA	1–14 mA	1–14 mA	1–14 mA	1–14 mA	1–16 mA	1–16 mA
Focal spot	0.5 mm, fixed anode	0.5 mm, fixed anode	0.5 mm, fixed anode	0.5 mm, fixed anode	0.5 mm, fixed anode	0.5 mm, fixed anode	0.5 mm, fixed anode
Image detector	Flat panel	Flat panel	Flat panel	Flat panel	Flat panel	Flat panel	Flat panel
Image acquisition	Single 200 degree rotation	Single 200 degree rotation	Single 200 degree rotation	200 / 360 degree rotation			
Scan time	7.5–27 s	9–37 s	9–37 s	9–33 s	9–33 s	1–36 s	1–36 s
Typical reconstruction time	2–25 s	2–25 s	2–25 s	2–30 s	2–55 s	2–55 s	2–55 s

Comparison

	ProMax 3D s	ProMax 3D LEC	ProMax 3D Classic	ProMax 3D Plus	ProMax 3D Mid	Viso G7	Viso G5
Planmeca CALM™ movement artifact correction	Yes	-	Yes	Yes	Yes	Yes	Yes
Planmeca Ultra Low Dose™ imaging	Yes	-	Yes	Yes	Yes	Yes	Yes
Tube voltage	90 kV	90 kV	90 kV	90 kV	90 kV	120 kV	120 kV
Endodontic mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3D dental programs	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3D ENT programs	-	-	-	Yes	Yes	Yes	Yes
3D face photo	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3D models scan	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SureSmile certification	-	Yes	Yes	-	Yes	-	-
4D jaw motion	-	-	-	-	Yes	Yes	Yes
2D panoramic imaging	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cephalometric imaging, scanning	Yes	Yes	Yes	Yes	Yes	-	-
Cephalometric imaging, one-shot	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Maximum volume sizes

	ProMax 3D s	ProMax 3D Classic and LEC	ProMax 3D Plus	ProMax 3D Mid	Viso G7	Viso G5
Maximum volume without stitching	Ø50 x 80 mm or Ø80 x 50 mm	Ø80 x 80 mm	Ø200 x 100 mm	Ø200 x 100 mm	Ø300 x 190 mm	Ø200 x 100 mm
Extended volume without stitching		Ø110 x 80 mm				
Maximum volume with horizontal stitching	150 x 100 x 50 mm	140 x 105 x 80 mm* *Only available with 3D Classic				
Maximum volume with vertical stitching				Ø200 x 170 mm	Ø300 x 300 mm	Ø200 x 170 mm

Dental programs Volume size (child mode) [mm]

	ProMax 3D s	ProMax 3D Classic and LEC	ProMax 3D Plus	ProMax 3D Mid	Viso G7	Viso G5
Tooth	Ø50 x 50 (Ø42 x 42) Ø50 x 80 (Ø42 x 68)	Ø50 x 50 (Ø42 x 42) Ø50 x 80 (Ø42 x 68)	Ø40 x 50 (Ø34 x 42) Ø40 x 80 (Ø34 x 68)	Ø40 x 50 (Ø34 x 42) Ø40 x 80 (Ø34 x 68)	Ø30 x 30 – Ø60 x 60 Default: Ø50 x 50	Ø30 x 30 – Ø60 x 60 Default: Ø50 x 50
Teeth	Ø80 x 50 (Ø68 x 42)	Ø80 x 50 (Ø68 x 42) Ø80 x 80 (Ø68 x 68) extended volume: Ø110 x 80	Ø80 x 50 (Ø68 x 42) Ø80 x 80 (Ø68 x 68) Ø100 x 60 (Ø85 x 50) Ø100 x 100 (Ø85 x 85)	Ø80 x 50 (Ø68 x 42) Ø80 x 80 (Ø68 x 68) Ø100 x 60 (Ø85 x 50) Ø100 x 100 (Ø85 x 85)	Ø70 x 30 – Ø120 x 100 Default: Ø100 x 100	Ø70 x 30 – Ø90 x 90 Default: Ø90 x 90
 double scan 	2x Ø80 x 50 (Ø68 x 42)					
 triple scan 	3x Ø80 x 50 (Ø68 x 42)	3x Ø80 x 80 (Ø68 x 68)				
Jaw			Ø160 x 60 (Ø160 x 60) Ø160 x 100 (Ø160 x 100) Ø200 x 60 (Ø200 x 60) Ø200 x 100 (Ø200 x 100)	Ø160 x 60 (Ø160 x 60) Ø160 x 100 (Ø160 x 100) Ø200 x 60 (Ø200 x 60) Ø200 x 100 (Ø200 x 100)	Ø130 x 30 – Ø170 x 170 Default: Ø140 x 100	Ø100 x 30 – Ø200 x 100 Default: Ø140 x 100
Face				Ø200 x 170 (Ø200 x 170)	Ø140 x 140 – Ø260 x 200 Default: Ø160 x 160	Ø140 x 130 – Ø200 x 170 Default: Ø160 x 160
Skull					Ø200 x 220 – Ø300 x 300 Default: Ø240 x 160	

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

	3D Plus	3D Mid	Viso G7	Viso G5
Nose	Ø80 x 80 (Ø68 x 68)	Ø80 x 80 (Ø68 x 68)	Ø70 x 70 – Ø120 x 100 Default: Ø80 x 80	Ø70 x 70 – Ø90 x 90 Default: Ø80 x 80
Sinus	Ø100 x 100 (Ø100 x 100) Ø160 x 100 (Ø160 x 100) Ø200 x 100 (Ø200 x 100)	Ø100 x 100 (Ø100 x 100) Ø100 x 170 (Ø100 x 170) Ø160 x 100 (Ø160 x 100) Ø160 x 170 (Ø160 x 170) Ø200 x 100 (Ø200 x 100) Ø200 x 170 (Ø200 x 170)	Ø140 x 140 – Ø240 x 190 Default: Ø160 x 140	Ø100 x 110 – Ø200 x 150 Default: Ø130 x 130
Middle ear	Ø40 x 50 (Ø34 x 42) Ø80 x 80 (Ø68 x 68)	Ø40 x 50 (Ø34 x 42) Ø80 x 80 (Ø68 x 68)	Ø30 x 30 – Ø60 x 60 Default: Ø50 x 50	Ø30 x 30 – Ø60 x 60 Default: Ø50 x 50
Temporal bone	Ø80 x 80 (Ø68 x 68)	Ø80 x 80 (Ø68 x 68)	Ø70 x 70 – Ø120 x 100 Default: Ø80 x 80	Ø70 x 50 – Ø90 x 90 Default: Ø80 x 80
Vertebrae	Ø80 x 80 (Ø68 x 68)	Ø80 x 80 (Ø68 x 68)	Ø70 x 70 – Ø120 x 100 Default: Ø80 x 100	Ø90 x 80 – Ø110 x 100 Default: Ø90 x 100
Airways	Ø80 x 80 (Ø68 x 68)	Ø80 x 80 (Ø68 x 68)	Ø70 x 70 – Ø120 x 100 Default: Ø90 x 100	Ø90 x 80 – Ø110 x 100 Default: Ø90 x 100

Voxel sizes

Planmeca Viso:

Planmeca ProMax 3D: 75 μ m*, 100 μ m, 150 μ m, 200 μ m, 400 μ m, 600 μ m 75 μm*, 150 μm, 300 μm, 450 μm, 600 μm

*Requires Endodontic imaging licence

Technical specifications





Dimensions

	3D s, 3D Classic or LEC	3D Plus or 3D Mid	Viso G7 or Viso G5
A	1320–2100 mm (52.0–82.7 in.)	1320–2100 mm (52.0–82.7 in.)	1335–2060 mm (52.6–81.1 in.)
В	1560–2340 mm (61.4–92.1 in.)	1730–2390 mm (68.1–94.1 in.)	1635–2360 (64.4–92.9 in.)
с	1170 mm (46.1 in.)	1170 mm (46.1 in.)	1115 mm (43.9 in.)
D	850 mm (33.5 in.)	950 mm (37.4 in.)	960 mm (37.8 in.)
E	150 mm (5.9 in.)	330 mm (13.0 in.)	425 mm (16.7 in.)
F	698 mm (27.5 in.)	810 mm (32 in.)	N/A
G	1250 mm (49.2 in.)	1430 mm (56.3 in.)	1515 mm (59.6 in.)
н	777 mm (30.6 in.)	756 mm (29.8 in.)	720 mm (28.3 in.)
J	Ø820 mm (32.3 in.)	Ø1010 mm (39.8 in.)	N/A

Physical space requirements

	3D s, 3D Classic or 3D LEC	3D s, 3D Classic or 3D LEC with cephalostat	3D Plus or 3D Mid	3D Plus or 3D Mid with cephalostat	Viso G7 or Viso G5	Viso G7 or Viso G5 with cephalostat
Width	100 cm (39.4 in.)	202 cm (79.6 in.)	128 cm (50.4 in.)	212 cm (83.5 in.)	125 cm (49 in.)	208 cm (81.7 in.)
Depth	125 cm (49.2 in.)	125 cm (49.2 in.)	143 cm (56.3 in.)	143 cm (56.3 in.)	149 cm (58.6 in.)	149 cm (58.6 in.)
Height*	156–234 cm (61–92 in.)	156–234 cm (61–92 in.)	173–239 cm (68–94 in.)	173–239 cm (68–94 in.)	160–234 cm (63–91.9 in.)	160–234 cm (63–91.9 in.)
Weight	113 kg (lbs 248)	128 kg (lbs 282)	131 kg (lbs 289)	146 kg (lbs 322)	165 kg (lbs 364)	180 kg (lbs 397)

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

Example installation

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.	Ethernet
Additional equipment	Additional diagnostic workstations with different software configurations Planmeca Romexis tools: • 3D Explorer • 3D Cross Sections module • 3D Implant Planning module • DICOM module	Printer Printer

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 7 Pro (64 bit) / Win 8.1 Pro (64 bit) / Win 10 Pro (64 bit)
	Win 2008 Server / Win 2012 Server
	Mac* (OS X or newer)
	For detailed information please see system requirements of Planmeca Romexis www.planmeca.com
	*Cephalometric Analysis module, 3D Ortho Studio module and Planmeca PlanCAD Easy are supported on Windows operating systems.
Image formats	JPEG or TIFF (2D images)
	DICOM (2D and 3D images)
	STL, OBJ, PLY (3D surface models)
	TIFF, JPEG, PNG, BMP (imports/exports)
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 Storage SCP
	DICOM Worklist SCU
	DICOM Query/Retrieve
	DICOM Storage Commitment
	DICOM MPPS
Interfaces	TWAIN Client
	PMBridge (patient information and images)
	VDDS (patient information and images)
	InfoCarrier (patient information)
3 rd party software	Dolphin Imaging
integrations	NobelClinician
	Simplant
	Straumann coDiagnostiX
	Cybermed N-Liten
	3D Diagnostics service
	360imaging service



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.

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