3D imaging
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** 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.

True all-in-one units for all your imaging needs.
Unique 3D combination – an industry first

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 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.
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.

Why Cone Beam Computed Tomography?

“Renowned dental implant surgeon Franck Renouard couldn’t imagine working without his CBCT”

“I acquired my Planmeca ProMax® 3D Classic in 2007 and was one of the very first users in France. The choice was quickly made, as Planmeca’s unit was far ahead of its competitors.”

All necessary diagnostic information from a single unit

“In implant cases, I usually start the analysis by taking a panoramic radiograph or a simple intraoral radiograph. As soon as I discover an ambiguity or low volume, I go for CBCT. For some indications, such as sinus lifts or onlay bone graftings, I always use CBCT.

I usually take large-volume studies right away. This enables diagnosis of endodontic or bone lesions that could otherwise go undetected in sites other than the implant site. The unit’s resolution is more than sufficient for everyday examinations. In cases where a patient has a lot of metal restorations in their mouth or a problem with staying still, the artefact filter is very useful.”

“Full sinus visualisation

“I take a CBCT study systematically before a sinus lift. It provides visualisation of the sinus anatomy and allows me to see if there is an intrasinus pathology or anatomical features such as septa. It also allows detecting possible thick antral arteries, which are common in the bone wall. I need to be aware of these parameters before surgery.

Nowadays, I do not like to receive paper-based exams, as radiologists often do not provide the axial views which are essential in sinus study. When I take the radiography myself, I can choose the slice that interests me.”

Improved patient satisfaction

“I then use CBCT to check the integration of my graft when I fill the tissue before implant placement. I also need CBCT when there are complications, which occur in 3–5% of cases. I can assure you that the patients are delighted to receive their diagnosis and treatment immediately, with no need to visit a specialist radiology centre.

Planmeca ProMax 3D Classic is a well-designed radiology unit. All in all, using 3D has become natural to me. I only wonder how we managed before 3D!”

Dr Franck Renouard, DDS, Paris, France

Dr Renouard specifies that he has not received any financial compensation or other benefit for this interview.
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.

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 motivation and for sharing information with colleagues.

Safer and faster facial surgery

The 3D photo visualises 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.
Unique 3D combination

3D model scanning

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

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 artefact-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.

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

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

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

Analyse the STL data further in the Planmeca Romexis® 3D Ortho Studio module, and then carry out a comprehensive dental cast analysis and create an orthodontic treatment plan

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.
**Planmeca 4D™ Jaw Motion** is the only true CBCT integrated solution for tracking, visualising, and analysing jaw movement in 3D. It offers incomparable visualisation 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 visualising a patient’s jaw movement. First, a CBCT image (e.g., a Planmeca Ultra Low Dose™ image) is acquired with a Planmeca ProMax™ 3D unit and 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 visualised, analysed, and stored to the Planmeca Romexis® imaging software in real time.

**Applications:**

Due to its capability to visualise 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, visualise, and record jaw movement in 3D
- Visualise movements in the Planmeca Romexis software in real time
- Record movements for later use and analysis
- Measure and visualise 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 visualisation
- Export movement and measurement information to 3rd party software for analyses and treatment 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
- Certified for use with the suresmile system for orthodontics

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
- ProTouch™ Desktop for remote control panel operation on the imaging workstation
- Planmeca Romexis® software
- Mac and Windows support

Some modalities mentioned may not be compatible with the full range of X-ray units in the Planmeca ProMax® 3D family. For full details on availability, see technical specifications at the end of the brochure.
Key features

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.

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

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

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 3D views help positioning and can even be used for preliminary diagnosis.
Our intelligent high-tech solutions and algorithms guarantee an ideal imaging geometry, perfect usability, and crystal-clear images free from noise and artefacts.

Key features

Advanced technology

Intelligent solutions for the best image quality

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.

New 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

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 radiation dose for the patient.

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

Metal artefact reduction with 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

Noise removal with 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

Endodontic mode
The endodontic imaging mode provides perfect visualisation of even the finest anatomical details. This advanced imaging mode is an ideal choice for endodontics and other cases with small details.
- Extremely high resolution with 75 μm voxel size
- Enables precise diagnostics and treatment plans
Key features

Pioneering low dose 3D imaging

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

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.

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

* Study of Orthodontic Diagnostic FOVs Using Low Dose CBCT protocol (Ludlow, John Barrett and Koivisto, Juha).
planmeca.com/ULD-poster

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

We at MESANTIS® 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® 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.
**2D and 3D imaging with one sensor**

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

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### Key features

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

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<tr>
<th>2D programs</th>
<th>2D and 3D imaging with one sensor</th>
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<tr>
<td><strong>Standard</strong> Basic panoramic programs</td>
<td>Normal SmartPan™ produces 9 different parallel panoramic layers with about 2 mm shift and one autofocus layer</td>
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<td>Standard Lateral TMJ (closed &amp; open)</td>
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<td>PA TMJ (closed &amp; open)</td>
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<td>PA sinus</td>
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<td>Standard Child (Paediatric) mode for each standard and optional program to reduce the dose</td>
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<td>Optional Horizontal and vertical segmenting for panoramic program</td>
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<td>Optional: Advanced panoramic programs</td>
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<td>Interproximal panoramic</td>
<td>MultiView SmartPan™ calculates 9 different rotated panoramic layers. This allows adjusting the view angle for improved diagnosis.</td>
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<td>Lateral PA TMJ</td>
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Planmeca ProMax® extraoral bitewings are ideal for periodontics, elderly and child patients, claustrophobic patients, 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.

### Key features

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

Key features

Cephalometric imaging with Planmeca ProMax® units

- The functional and easy-to-use head positioner ensures accurate positioning for all cephalometric projections
- The carbon fibre 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 paediatric imaging

Two equipment options:

One-shot Planmeca ProCeph™ cephalostat

- Effective one-shot cephalostat
- Short exposure time – no motion artefacts, low patient dose
- Image sizes from 18 x 20 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

Two options for cephalometric analyses:

Planmeca Romexis® Cephalometric Analysis module

- Tools for creating cephalometric analyses, superimpositions, and surgical treatment plans (VTO) in minutes
- Fully customisable 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
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. It supports the most versatile range of 2D and 3D imaging modalities.

Imaging and CAD/CAM in one software – an industry first
Reinventing 3D imaging

Our pioneering Planmeca Romexis® software offers specially designed tools for implantologists, endodontists, periodontists, prostodontists, 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.

Superimpose CBCT

New to Planmeca Romexis 3D, the module 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. The module also allows users to compare CBCT and MRI images side by side – providing a comprehensive view of a patient’s anatomy.

Tooth segmentation

Planmeca Romexis provides a new, intuitive and efficient tool for segmenting a tooth and its root from a CBCT image. The guided process enables quick segmentation of a patient’s full dentition. Surface models of segmented teeth can be visualised, measured and utilised e.g. in Planmeca Romexis® 3D Ortho Studio as part of orthodontic treatments.

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.

Free Planmeca Romexis® Viewer application

planmeca.com/Viewer

Full-featured viewer application

No installation required

Mac 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.
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 and abutments, 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 70 manufacturers

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 (abutment) 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
Print the surgical guide with Planmeca Creo™ or any other suitable 3D printer
The Planmeca Romexis® 3D Ortho Studio module provides orthodontists and dental laboratories with several innovative tools. The advanced software is designed for the examination and analysis of digital dental models scanned e.g. with Planmeca ProMax® 3D X-ray units or the Planmeca Emerald™ or Planmeca PlanScan® intraoral scanners. It includes an extensive set of premium tools for treatment planning in 3D.

Dental model analysis

Dental impressions and plaster casts scanned with the Planmeca ProMax® 3D model scanning mode can be aligned with the bite index using the Planmeca Romexis® software. Examination, analysis and treatment planning are then conveniently done in the Planmeca Romexis® 3D Ortho Studio module.

The module makes dental model analysis easier than ever by offering all the necessary tools for virtual base creation, occlusion inspection, and versatile teeth and arch measurements.

Treatment planning and verification in 3D

A staged treatment plan can be established in Planmeca Romexis 3D Ortho Studio by displacing the teeth in a virtual tooth setup while visualising intersections and contacts.

For improved visualisation, segmented roots and bone surfaces from CBCT images can be combined.

All the applied changes such as tooth movements, interproximal reductions, and tooth extractions are summarised in a detailed treatment plan report. The plan can be easily shared with others.

It is also possible to make 3D comparisons of treatment plan models and patient scans to verify treatment progress.

Export of digital dental models in STL format

Planmeca Romexis 3D Ortho Studio generates a series of digital dental models for each treatment stage. The models can be exported in STL format for 3D printing and custom appliance design and manufacturing.

The module is compatible with the Windows operating system.
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.

Romexis® Clinic Management – fluent and safe use of equipment
• See clear graphical overviews of a clinic – showing equipment status, occupancy, and users
• Enable local network access

Romexis® Insights – consolidated online monitoring of all equipment
• Monitor equipment from anywhere over the internet – also using mobile devices
• Utilise interactive dashboard views to see statistics from all clinics or individual locations and equipment
• Monitor trends and changes to clinic operations using informative graphics
• Allow stakeholders (such as service technicians) to securely access equipment information

Key benefits of networked equipment:
Planmeca equipment can be networked to gather valuable data on their use:
• 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

Your mobile world of imaging

Our advanced Planmeca mRomexis™ imaging application for iOS and Android allows you to flexibly view and capture images on mobile tablet devices. Remove the constraint of place – easily consult with colleagues and communicate with patients both in and outside your clinic.

Increased flexibility with Planmeca mRomexis™
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. Expand the possibilities of Planmeca Romexis and experience the new level of freedom our mobile world can offer!

Key benefits:
• Available for both iOS and Android tablets
• Supports an extensive range of images – 2D and 3D X-ray images, 3D dental models, STL files, Planmeca ProFace® facial photos, and standard photos
• Direct connectivity with the Planmeca Romexis® server for retrieving or saving images
• Convenient acquisition of 2D X-ray images with Planmeca equipment
• Capturing photos with the camera of the mobile device
• Voice annotations to images can be recorded using the mobile device’s microphone
• Flexible and secure retrieving of images via the Planmeca Romexis® Cloud image transfer service
• Excellent tool for patient education and communication

For iOS and Android

Download the Planmeca mRomexis™ application for iOS and Android from the App Store or Google Play.
Planmeca Romexis® Cloud is a secure image transfer service for Planmeca Romexis® users and their partners. Now you can easily share images and CAD/CAM cases with any specialist or patient.

**Planmeca Romexis® Cloud**
- **IMAGES**
- **REFERRALS**
- **INTERPRETATIONS**
- **TREATMENT PLANS**

**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

**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

**Anybody, anywhere**
- General practitioner
- Colleague
- Radiologist
- Specialist
- Dental lab
- Patient

**Versatile possibilities for communication**
Recipients can download and view images at no cost using:
- Planmeca Romexis
- Planmeca mRomexis™ imaging application for iOS and Android devices
- Free Planmeca Romexis® Viewer

Planmeca Romexis® software and Planmeca Romexis® Cloud subscription are required for sending new cases. Visit [http://online.planmeca.com/](http://online.planmeca.com/) to subscribe and start sending images now.
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 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 newest member in our 3D family, 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 Max
Planmeca ProMax® 3D Max is a dedicated 3D imaging device that produces all required volume sizes when diagnosing the maxillofacial region – from the smallest special cases to images of the entire head.

Professionals proudly present the Planmeca ProMax® 3D family

The interviewed have not received any financial compensation or other benefit for the interviews that follow.
Long-term cooperation with Planmeca

"We purchased a Planmeca ProMax® 3D s for our dental clinic about four years ago or so. Before that, we had equipped our clinic with five Planmeca dental units, so it was only natural to continue the cooperation with Planmeca also on the X-ray side. Also, several radiologists recommended Planmeca’s 3D units to us for their high quality.

We use the unit for implant cases, for lower third molar surgery, and for endodontic cases – particularly in difficult infection cases of teeth with multiple roots. Personally, I use the Planmeca Romexis® 3D Implant Planning module the most. It’s very practical as I can virtually place the implants myself in the software.

The unit itself is very easy to use – our whole staff uses it, although mainly dentists take 3D images. Positioning is effortless and images are of high quality. And the unit’s design is stylish and refined.

I would definitely recommend the unit to others. We have just taken the new sensor into use and I am very satisfied with the image quality. And the feedback from consulting radiologists has been good as well.”

Ari Mäkelä, Licentiate in Dentistry
Dental Care Center Janne, Järvenpää, Finland

Chinese hospital chose Planmeca ProMax® 3D s

“I bought the Planmeca ProMax® 3D s system in September 2010, so I have been using it for over 2 years now. Factors influencing my decision were Planmeca’s good reputation and quality-price ratio. For me, it is also important that everyday performance is excellent and if necessary, the after sales service works quickly.

I use my Planmeca 3D s system for various cases – for diagnosis in oral and maxillofacial surgery, for implantology, for diagnosis of periodontal and dental pulp diseases, and for orthodontics. The image quality is very clear, which makes diagnosis very easy with the excellent Planmeca Romexis® software.

In implant cases, Planmeca ProMax 3D s is very important for my preparation phase. The data I get from the image of the bone structure and thickness makes the operation easy and safe for the customer.

Planmeca ProMax 3D s really adds value to my work as I can perform many different kinds of tasks quickly and efficiently.”

Sun Zhizong, Dean
Donggang City Stomatology Hospital, Liaoning, China
Planmeca ProMax® 3D Classic

New extended volume size for the Teeth program

- Extended volume size that increases the diameter from Ø80 x 80 mm to Ø110 x 80 mm
- Captures a larger diagnostic area without increasing the patient dose
- Full dentition scans with the Planmeca ProMax® 3D Classic Teeth program
- Single rotation scans without stitching

Finnish dental clinic chooses Planmeca ProMax® 3D Classic

"We decided to purchase a Planmeca ProMax 3D Classic 8x8 for our clinic as we wanted to start taking our own CBCT images and not have to send our patients elsewhere to have their 3D X-rays taken. In such cases, there is always the risk that the treatment process will suffer due to the patient’s own lack of activity. Now we have our own radiologist and things have gone very smoothly. We also have two surgeons working with us, as we do a lot of implant treatments and treat also difficult endodontic cases."

Implant case acceptance has skyrocketed

"After acquiring the Planmeca ProMax 3D Classic, the amount of implant cases treated at our clinic has increased considerably. Patients are always amazed when we offer to take their 3D images straight away. The unit is also especially suited to complicated endodontic cases, as you can notice everything in a 3D volume. It is also excellent for cases of wisdom teeth that have grown at a cumbersome angle.

The image quality produced by Planmeca ProMax 3D Classic is excellent. I think it is safe to say that we have the best 3D unit in Finland. This opinion is shared by our surgeons and many radiologists. The Planmeca Romexis® software is a great working tool. It is logical, easy to use, and functions well – just a really good piece of software."

Pekka Nissinen, GPD, West Vantaa Dental Clinic, Finland

Optimal image quality for every single field of dentistry

"I’ve been using Planmeca ProMax 3D Classic ever since its introduction to the market in 2007, and have used it for all imaging purposes. The image quality has proven to be reliable in every single field of dentistry, even in the most demanding imaging cases. The unit is very user-friendly, and all in all the imaging process can be carried out in an uncomplicated manner.

The Planmeca Romexis software is, in my opinion, the best software on the market when it comes to 3D imaging."

Kim Lemberg, radiologist, West Vantaa Dental Clinic, Finland
Dr. Dirk Ladig
Oral surgery practice, Hoyerswerda, Germany

German oral surgery practice is impressed with the image quality of Planmeca ProMax® 3D Plus

“I have been using the Planmeca ProMax® 3D Plus unit in my oral surgery practice since 2013. Before that, I had good experience with Planmeca X-ray units. My panoramic X-ray unit ran smoothly for 19 years, the service was good and I was satisfied. Moreover, in 2000, I integrated cone beam computed tomography into my practice by adding a second unit. The decisive factor in purchasing the Planmeca ProMax 3D Plus unit was the radiographs of the new flat-panel devices shown to me by colleagues. The higher resolution of the images was very impressive! There was also a change in the physical layout of my practice. Instead of having two X-ray rooms, I wanted to have one. Planmeca ProMax 3D Plus combines two devices in one: OPG and CBCT. As a result, we need considerably less space.

More information in a single image
I use the device for different kinds of treatment planning; mainly implant cases, but also high-risk wisdom tooth surgery. In my view, a key benefit of the Planmeca ProMax 3D Plus is the possibility of displaying the entire mandible— including the ascending mandibular ramus and mandibular joint—in a single image. I also use the images for diagnosis of foreign body location, apical variances and inflammatory processes in the jaw area. CBCT provides much better diagnostic options for screening for infectious foci in patients with unclear symptoms or certain systemic diseases. Questions related to orthodontic treatments of impacted and displaced teeth, for example, can be easily solved on behalf of colleagues.

Low radiation exposure with adjustable volume sizes
What I really like about the unit is that I can select the volume according to the required image. The radiation exposure for patients is thus kept as low as possible. I use low-dose scans particularly with orthodontic diagnosis. The layer lights are especially useful when centring the image volume.

Operating and adjusting the unit is easy. What’s more, the transition from analogue to digital control went well. Since the patients stand upright within the unit, positioning them is much easier than with the predecessor of the CBCT model (with patient bench), without having any problems with motion blur. The new device is also much more pleasant for the patients because there is no feeling of constriction.”

Dr. Dirk Ladig
Oral surgery practice, Hoyerswerda, Germany
Planmeca ProMax® 3D Mid

Italian A&P Clinic opts for Planmeca ProMax® 3D Mid after a thorough market analysis

“In our new dental clinic, we have been using Planmeca ProMax® 3D Mid for six months now — and we are really satisfied with it. We chose the unit after a thorough analysis of what the market was offering. We needed an imaging unit that could provide a wide range of FOV choices, the possibility to take panoramic images and cephalometric shots, and last but not least, software that could run natively on Mac OS, because our IT infrastructure was entirely built on Apple computers. The only unit that fulfilled all of these requirements was Planmeca ProMax 3D Mid.”

For every clinical application

“We love using it for taking panoramic images, preliminary treatment planning, 3D scans, wisdom teeth extractions and implant surgery. With Planmeca Romexis® — its dedicated software — we can virtually place the exact dental implants we are going to use by choosing them from the integrated 3D implant library. This feature works amazingly well.”

3D magic with the latest technology

“The machine and the software work seamlessly together. They are fast, reliable and easy to use. The 3D rendering is an incredibly powerful tool for us — for visualising the real bone morphology of the patients, and for the patients themselves to understand their clinical situation and the treatment we are offering them. So Planmeca Romexis can become a really effective communication tool. For this reason, we adopted also the Planmeca ProFace® option. By superimposing a 3D scan of the patient’s face and a CBCT X-ray image, we can show our clients an easy-to-understand image, in which they can really recognize themselves. Even today, this looks like magic for many of our patients!”

Dr Carlo Pizzo & Dr Gioia Amico, A&P Clinic, Cittadella, Italy
Dr Corrado Gazzero
MD, Specialist in Radiodiagnosics, Qualified Expert in Radioprotection
Studio Gazzero, Genoa, Italy

Radiologist praises the versatility of Planmeca ProMax® 3D Max

“I was the first Planmeca ProMax® 3D Max user in Italy and have been using it for about three years now. Before that, I used Planmeca ProMax® 3D Classic 8x8 for 2 years. And I’ve been using Planmeca equipment since 1995 because of their image quality, their reliability, and the fast maintenance service. I really enjoy working with Planmeca ProMax 3D Max. I have used it for every possible dental case, including all aspects of implantology, as well as endodontics, examining alterations of the bone structure, wisdom tooth extractions, supernumerary teeth and more. In ENT cases, I have used the unit for the study of the paranasal sinuses and facial bone structures. One of the most remarkable advantages is the possibility to choose the image quality and therefore to optimise the patient dose. The volume selection is complete, the imaging programs are easy to use and patient positioning is effortless.”
Dr Gazzerno, Studio Gazzero, Genoa, Italy

Volume sizes
Ø230 x 260 mm
Ø230 x 160 mm
Ø230 x 100 mm
Ø130 x 160 mm
Ø130 x 130 mm
Ø130 x 100 mm
Ø130 x 90 mm
Ø100 x 90 mm
Ø100 x 55 mm
Ø50 x 55 mm

Professionals proudly present
Planmeca ProMax® 3D Max

Planmeca
Patient specific implants
You imagine it. We make it.

Planmeca ProModel™ offers patient-specific implants, surgical guides, and anatomical models – all individually designed for best possible surgical results.

The implants are designed and manufactured to match any form, ensuring an exact fit to the patient’s anatomy. The service also includes physical anatomical models and surgical guides for assisting in both pre-planning and the surgery itself.

Planmeca ProModel™ service concept
- A unique service for creating patient specific implants, surgical guides and anatomical models from CBCT/CT images
- 3D implants are designed in an online session between the surgeon and Planmeca designer
- Ordering is quick and easy – from order to delivery in just a few business days
- Significantly lowers costs and reduces operation times by up to 4 hours
- Faster and more precise operations leading to better aesthetic results

Faster operations, precise fit and better aesthetic results
Technical specifications

Technical data

<table>
<thead>
<tr>
<th>3D s</th>
<th>3D Classic</th>
<th>3D Plus</th>
<th>3D Mid</th>
<th>3D Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode voltage</td>
<td>60–90 kV</td>
<td>60–90 kV</td>
<td>60–90 kV</td>
<td>60–90 kV</td>
</tr>
<tr>
<td>Anode current</td>
<td>0.5–4 mA</td>
<td>1–4 mA</td>
<td>1–4 mA</td>
<td>1–4 mA</td>
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<td>Focal spot</td>
<td>0.5 mm, fixed anode</td>
<td>0.5 mm, fixed anode</td>
<td>0.5 mm, fixed anode</td>
<td>0.5 mm, fixed anode</td>
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<td>Image detector</td>
<td>Flat panel</td>
<td>Flat panel</td>
<td>Flat panel</td>
<td>Flat panel</td>
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<tr>
<td>Image acquisition</td>
<td>Single 200 degree rotation</td>
<td>Single 200 degree rotation</td>
<td>200 / 360 degree rotation</td>
<td>200 / 360 degree rotation</td>
</tr>
<tr>
<td>Scan time</td>
<td>7.5–27 s</td>
<td>9–33 s</td>
<td>9–33 s</td>
<td>9–40</td>
</tr>
<tr>
<td>Typical reconstruction time</td>
<td>2–25 s</td>
<td>2–30 s</td>
<td>2–55 s</td>
<td>2–55 s</td>
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</table>

Comparison

<table>
<thead>
<tr>
<th>3D s</th>
<th>3D Classic</th>
<th>3D Plus</th>
<th>3D Mid</th>
<th>3D Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D dental programs</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3D ENT programs</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3D face photo</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>3D models scan</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>SureSmile certification</td>
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<td>Yes</td>
<td>Yes</td>
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<tr>
<td>4D jaw motion</td>
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<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>2D panoramic imaging</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>2D cephalometric imaging</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Maximum volume sizes

<table>
<thead>
<tr>
<th>3D s</th>
<th>3D Classic</th>
<th>3D Plus</th>
<th>3D Mid</th>
<th>3D Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum volume without stitching</td>
<td>Ø50 x 80 mm</td>
<td>Ø80 x 80 mm</td>
<td>Ø160 x 90 mm</td>
<td>Ø200 x 100 mm</td>
</tr>
<tr>
<td>Extended volume without stitching</td>
<td>Ø110 x 80 mm</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum volume with horizontal stitching</td>
<td>90 x 60 x 80 mm</td>
<td>140 x 105 x 80 mm</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum volume with vertical stitching</td>
<td>-</td>
<td>-</td>
<td>Ø200 x 170 mm</td>
<td>Ø230 x 260 mm</td>
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</tbody>
</table>

Dental programs

Volume size (child mode) [mm]

<table>
<thead>
<tr>
<th>3D s</th>
<th>3D Classic</th>
<th>3D Plus</th>
<th>3D Mid</th>
<th>3D Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tooth</td>
<td>Ø50 x 50 (Ø42 x 42)</td>
<td>Ø50 x 50 (Ø42 x 42)</td>
<td>Ø40 x 50 (Ø34 x 42)</td>
<td>Ø50 x 55 (Ø42 x 50)</td>
</tr>
<tr>
<td>Teeth</td>
<td>Ø50 x 80 (Ø68 x 68)</td>
<td>Ø50 x 80 (Ø68 x 68)</td>
<td>Ø70 x 90 (Ø60 x 60)</td>
<td>Ø80 x 80 (Ø68 x 50)</td>
</tr>
<tr>
<td>Jaw</td>
<td>Ø160 x 50 (Ø160 x 50)</td>
<td>Ø160 x 90 (Ø160 x 90)</td>
<td>Ø180 x 100 (Ø180 x 100)</td>
<td>Ø200 x 100 (Ø200 x 100)</td>
</tr>
<tr>
<td>Face</td>
<td>Ø200 x 170</td>
<td>Ø200 x 170</td>
<td>Ø230 x 260</td>
<td>-</td>
</tr>
</tbody>
</table>

ENT (Ear, Nose, Throat) programs

Volume size (child mode) [mm]

<table>
<thead>
<tr>
<th>3D s</th>
<th>3D Classic</th>
<th>3D Plus</th>
<th>3D Mid</th>
<th>3D Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nose</td>
<td>Ø70 x 70 (Ø60 x 60)</td>
<td>Ø80 x 80 (Ø68 x 68)</td>
<td>Ø100 x 90 (Ø85 x 75)</td>
<td>-</td>
</tr>
<tr>
<td>Sinus</td>
<td>Ø70 x 90 (Ø60 x 90)</td>
<td>Ø160 x 90 (Ø160 x 90)</td>
<td>Ø160 x 100 (Ø160 x 100)</td>
<td>Ø180 x 100 (Ø180 x 100)</td>
</tr>
<tr>
<td>Middle ear</td>
<td>Ø40 x 50 (Ø34 x 42)</td>
<td>Ø40 x 50 (Ø34 x 42)</td>
<td>Ø50 x 55 (Ø42 x 50)</td>
<td>-</td>
</tr>
<tr>
<td>Temporal bone</td>
<td>Ø70 x 70 (Ø60 x 60)</td>
<td>Ø80 x 80 (Ø68 x 68)</td>
<td>Ø100 x 90 (Ø85 x 75)</td>
<td>-</td>
</tr>
<tr>
<td>Vertebrae</td>
<td>Ø70 x 70 (Ø60 x 60)</td>
<td>Ø80 x 80 (Ø68 x 68)</td>
<td>Ø100 x 90 (Ø85 x 75)</td>
<td>Ø100 x 130 (Ø85 x 110)</td>
</tr>
<tr>
<td>Airways</td>
<td>Ø70 x 70 (Ø60 x 60)</td>
<td>Ø80 x 80 (Ø68 x 68)</td>
<td>Ø100 x 90 (Ø85 x 75)</td>
<td>Ø100 x 130 (Ø85 x 110)</td>
</tr>
</tbody>
</table>

Stand out with colour

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

- 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.

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

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

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)
- VODS (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

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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.