



PLANMECA
Romexis

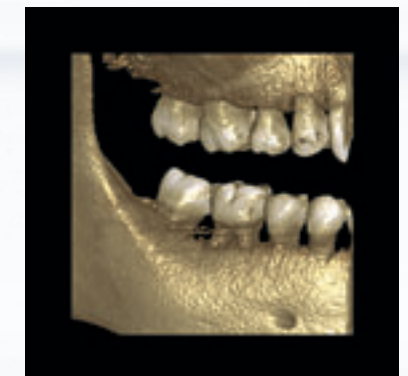
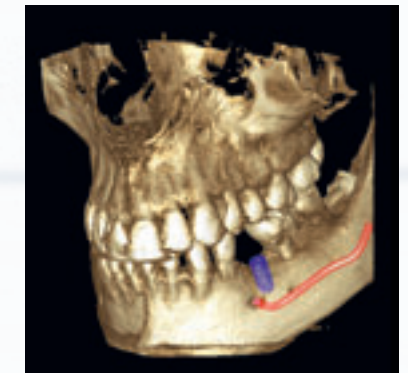
Software refined

Planmeca Romexis is an advanced, easy to use software suite providing a rich set of tools to meet the imaging and clinic management requirements of any dental facility from a small clinic to a large hospital.

Planmeca Romexis supports a full range of imaging modalities to manage all your X-ray, 3D, and photographic procedures. All images are stored and processed within one system. Planmeca Romexis is, however, more than imaging software; it completely integrates digital imaging with patient management, dental units and other systems of the clinic. The software consists of different modules of which you can choose those that best suit your needs. The modular structure, DICOM functionality, and TWAIN, Windows and Mac OS compatibility make Planmeca Romexis an extremely flexible solution.

In addition, Planmeca Romexis introduces Clinic Management module – a revolutionary new concept for clinic monitoring and maintenance of the dental units.

In essence, Planmeca Romexis enables full utilisation of the latest 3D technology available, integrating effortless and efficient image processing with dental clinic management to fulfil all your needs.





2D imaging

Planmeca Romexis is the software of choice for viewing and processing 2D images acquired with Planmeca's digital X-ray units. All patient images – intraoral and extraoral radiographs, scans, and photographs – are displayed in a single interface. Planmeca Romexis offers streamlined workflow and easy-to-use tools ensuring the software can be used with minimal training. Enhancing the diagnostic value of images is easy with a wide range of advanced image processing tools.

Planmeca Romexis integrates a variety of third party equipment through the industry standard TWAIN interface and communicates via the DICOM standard. Versatile printing and reporting functions allow sharing of important information with partners and patients. With the free Planmeca Romexis Viewer software the images can be viewed and processed outside the clinic.

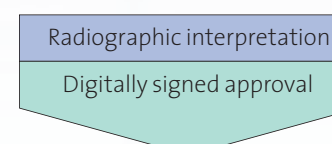
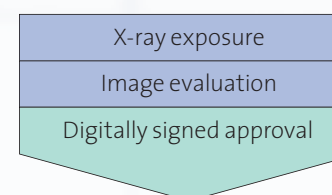
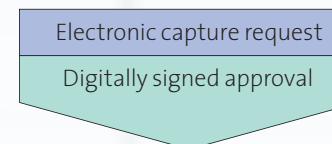
Together with Planmeca's X-ray equipment, the Planmeca Romexis Radiology Workflow module constitutes a powerful safety feature, which has proved especially useful in the teaching environment: image capture can be disabled until a supervisor approves the student's X-ray exposure request. In addition, Planmeca Romexis provides streamlined menus for effortless on-screen radiographic evaluation and interpretation of the images.



All imaging modalities can be viewed in the same easy-to-use user interface. Mark findings and interpretations by adding annotations and measurements to images.



With a variety of printing possibilities, stunning reports can be easily created: add images to a printout with a single click, and scale or crop the images for optimum results. You may also add any patient or image information or free text to a printout. The printouts can also be saved as files to be sent via e-mail, for example.

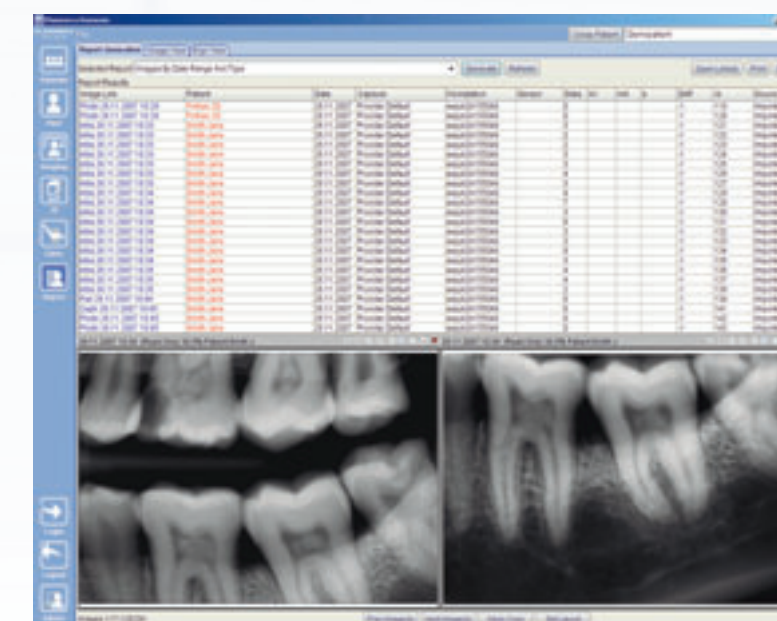


RADIOLOGY WORKFLOW MODULE

Optional multilevel control for X-ray safety

The system ensures controlled access to the X-ray devices: radiation is disabled until the supervisor accepts the user's acquisition request.

1. The user places an image acquisition request defining the type and quantity of images.
2. After the request has been accepted, the X-ray unit is enabled for image acquisition.
3. The user evaluates the quality of the captured images, and the supervisor approves the evaluation. The images are clearly labelled as either diagnostic or non-diagnostic.
4. The radiographs are interpreted using intuitive menus. Only the diagnostic images can be interpreted.
5. In case an image is non-diagnostic, the user can place a retake request.



As a standard feature, Planmeca Romexis includes a versatile report module, where database queries can be performed with a variety of search criteria. The images can be sorted for example by capturer, by image type, date, image diagnosis, or by the sensor used. The images matching the search criteria can be viewed and enhanced without opening the patient file.

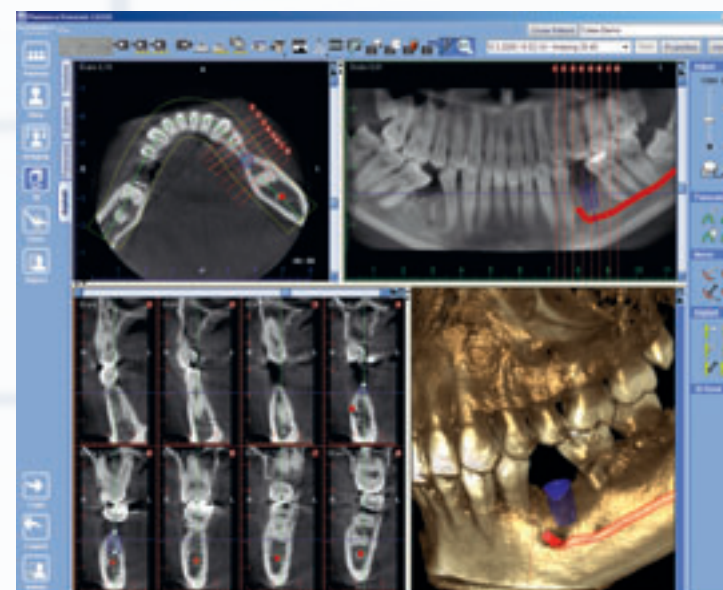


3D imaging

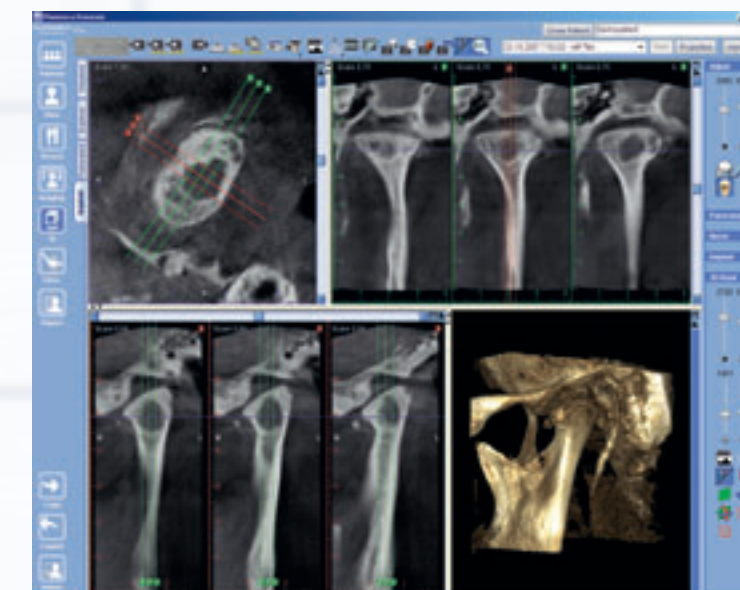
Planmeca Romexis is a comprehensive software solution for acquisition, viewing, and processing of 3D images. The images acquired with Planmeca ProMax 3D series X-ray units can be freely navigated and re-sliced in real time. Powerful tools allow measuring along any plane in 3D space and measurements can be easily recalled for viewing.

The 3D rendered view of images gives an immediate overview of the anatomy, serving as an excellent patient education tool. The images can be viewed from different projections allowing for an accurate diagnosis: use panoramic projections, cross sectional and axial slices as well as nerve canal tracing for detailed visualisation and processing of images. With the Planmeca Romexis Implant Planning module you can use realistic implant libraries and work with precise implant planning tools with minimal effort.

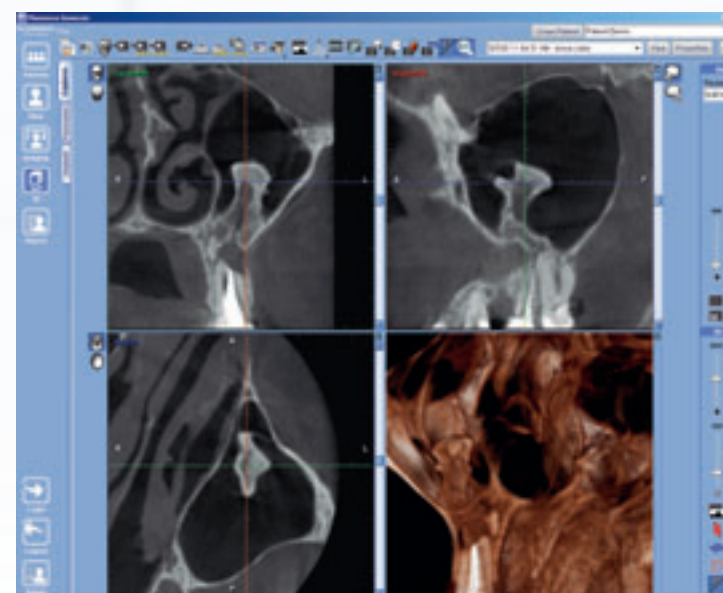
As the software is fully DICOM compatible, 3D studies can be transferred to any other system that receives studies in any DICOM format, such as implant planning software. The 3D studies can also be written directly on a CD-ROM and forwarded to a consulting doctor. Planmeca Romexis Viewer can be included on the CD for easy viewing without installing the Planmeca Romexis software.



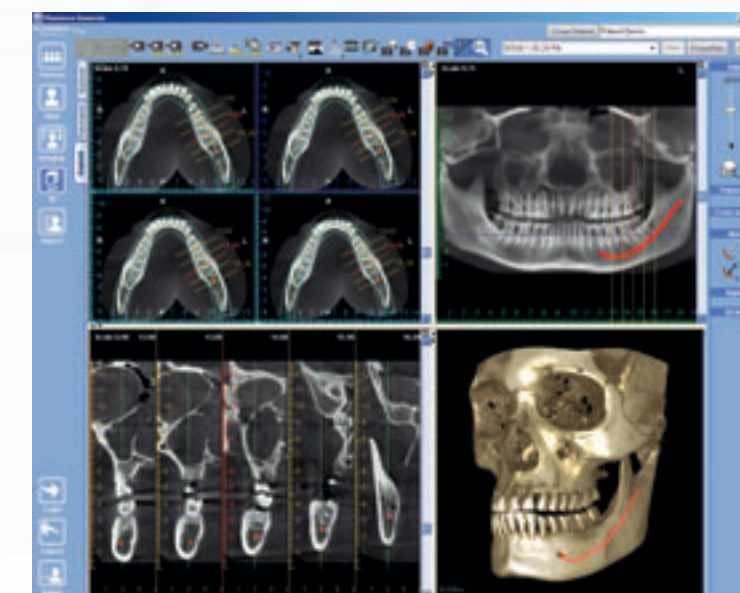
The Planmeca Romexis 3D Implant Planning module offers tools for accurate implant placement and nerve tracing. Implant placement is assisted by real-size implant models. Selected implant product lines are available in realistic 3D models.



The Planmeca Romexis TMJ module provides easy and accurate diagnosis of the TMJ area. The size, the location, and the alignment of the projections can be freely defined and a dedicated view is provided for each TMJ. Both left and right TMJ are available in one view for easy comparison.



Planmeca Romexis offers tools for all types of anatomy from sinuses to airways. Any anatomy can be browsed through and rotated in real time with views in three different projections. The state-of-the-art 3D rendering gives an immediate overview of the case at hand.



The Planmeca Romexis user interface is flexible, enabling accurate diagnosis in all cases. Choose cross sectional, axial, or panoramic slices easily on the screen or create a combination to suit a specific use. The number of slices as well as the thickness and the distance between the slices can be freely defined.



Clinic Management

Planmeca Romexis offers unparalleled understanding and control over the dental clinic operations of selected Planmeca Compact dental units. The Planmeca Romexis Clinic Management module monitors and records the unit operations in a comprehensive log for later analysis. The information is collected on the settings and use of every instrument, as well as on the chair positions and help events, among others.

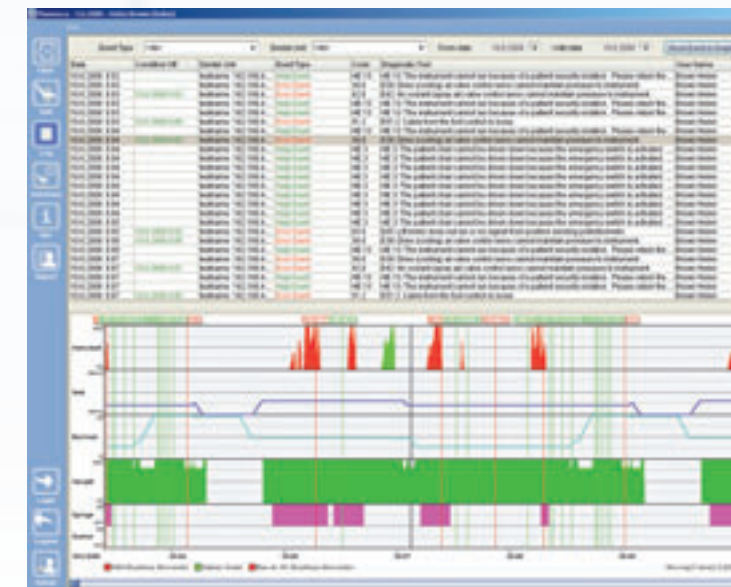
The collected dental unit information is categorised and displayed in various views and reports to provide a full picture of the clinic status. Based on the reports, the use-related errors can be quickly detected and localised allowing for fast technical support and efficient maintenance of the units. The software also generates and dispatches automatic problem reports, for truly proactive customer support. The tracking of actual usage enables planning of dental unit maintenance in advance and thus saves time and cost.



Clinic monitoring offers a graphical overview of all connected devices at the clinic. The status of each operator can be quickly evaluated and those operatories that need assistance can be immediately detected.



Unit view allows real-time monitoring of the selected dental unit. It can be used to monitor user activities and to review dental unit settings.



Diagnostic Log enables efficient daily monitoring of dental unit events, i.e. error and help messages, as well as reviewing the event history. A comprehensive error and help event log provides better understanding of problem situations.

Unit	Total	Current	Limit
Dental Unit	40.1 h	40.1 h	
Operation Light	13.0 h	13.0 h	
Suction		6.1 h	
Chair Seat Height		2.1 h	
Chair Backrest		2.0 h	
Chair Legrest		0.3 h	
Instruments			
Syringe		3.12 h	
Micromotor		2.71 h	
Polymerization light		0.88 h	
Scaler		0.60 h	
Latest Cleaning Operations			
Waterline Cleaning			
Instrument Flush			
Suction Line Cleaning			

Device Summary sums up all usage and maintenance information of the dental unit into a single record.

The Planmeca Romexis software is a flexible platform designed to fulfil the needs of any facility from a small clinic to a large hospital. Several features facilitate the management of the Planmeca Romexis system:

- Planmeca Romexis is 3-tier client-server software, allowing for more control over the system and enabling advanced data processing such as automatic server side processing.
- Powerful user and group management with full system audit trail guarantee that patient information is protected.
- As Java software, Planmeca Romexis can natively run on both Windows and Apple Macintosh operating systems.
- Java Web Start allows Planmeca Romexis to be updated to a new version with minimum effort. Simply update the server and all clients will be automatically updated.
- Image and report data can be exported to other software for further processing.
- Planmeca Romexis integrates with different systems using various interfaces; it conforms to international standards, such as DICOM for full interoperability with other systems and software.

Technical details

Database	MS SQL 2005 Server Express (included) MS SQL 2005 Server Oracle 10g2 SOLID
Image formats	JPEG or TIFF (2D image) DICOM (3D image) TIFF, JPEG, PNG, BMP (import/export)
DICOM 3.0 support	DICOM Import/Export DICOM DIR Media Storage DICOM Print SCU (option) DICOM Storage SCU (option) DICOM Worklist SCU (option) DICOM Query/Retrieve (option) DICOM Storage Commitment (option)
Interfaces	TWAIN Client PMBridge (patient information and images) VDDS (patient information and images) InfoCarrier (patient information) Datagate (patient and user information)
Installation options	Client-Server Java Web Start deployment

Computer recommendations

		Planmeca Romexis client workstation	Planmeca Romexis server
Processor	2D 3D	1 GHz 2 GHz Core Duo or equivalent	2 GHz 3 GHz Core Duo or equivalent
RAM	2D 3D	1 GB 3 GB	2 GB 3 GB
Hard disk space	2D 3D	40 GB 40 GB	160 GB 2 x 500 GB (RAID1 mirroring)
Graphics card	2D 3D	Not required ATI or NVIDIA, 128 MB minimum memory	Not required Not required
Monitor		1280 x 1024	1024 x 768
Peripherals		CD R/W or DVD R/W drive	CD R/W or DVD R/W drive
Backup medium		None necessary	DAT or equivalent
Operating system		Windows XP Windows 2003 Windows Vista Mac OS X Linux Mac OS X and Linux support subject to contract	Windows XP Pro Windows 2003 Server Windows Vista
Other		Java platform (Java Virtual Machine 1.6 or later)	Java platform (Java Virtual Machine 1.6 or later)

The disk space requirements are determined by digital images. Thus the space requirements vary, but a rough estimate is in the order of 1 MB per 2D X-ray image, 7-9 MB per extraoral image, depending on a variety of image specific factors, and 250 MB per 3D image.

It is recommended to use the same computer as an application server and as a database server. If Planmeca Romexis server computer is also used for client activities, the hardware should meet both client and server specifications.

These specifications are recommended minimum requirements. Not meeting them may lead to degraded performance.



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



Planmeca Oy
 Asentajankatu 6 | 00880 Helsinki | Finland
 tel. +358 20 7795 500 | fax +358 20 7795 555
 sales@planmeca.com | www.planmeca.com

Images may contain optional items not included in standard delivery. Available configurations and features may have country or area specific variations. Some products displayed above may not be available in all countries or areas. Rights for changes reserved.