PLANMECA ROMEXIS® SOFTWARE

ENGLISH

PLANMECA

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All-in-one software platform

Planmeca Romexis® *is the leading software platform for dentistry. It supports all types of dental imaging – from 2D and 3D to CAD/CAM – and offers an extensive range of tools for all specialities and specialists. All patient images are available in one easy-to-use and customisable user interface.*

Mac* and Windows compatible

*Some functions only supported on Windows operating systems.

One software, all solutions

Planmeca Romexis® *is a flexible and powerful software platform with countless advanced features. It has been designed to meet the imaging needs of any dental facility – from a small clinic to a large hospital.*

All business scopes

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

All specialities

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

All modalities

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

All platforms

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

Key benefits

- All-in-one software for 2D and 3D imaging, CAD/CAM, and 4D jaw motion tracking
- Open software platform – supports multiple file formats, such as JPEG, DICOM, and STL
- Integration with practice management and 3rd party software
- Compatible with Mac and Windows
- Networked connectivity built around a centralised database
- Device-independent dental image archive using the DICOM standard

The **Romexis®** software supports direct imaging and scanning with Planmeca equipment, as well as fabricating treatment devices and restorations with Planmeca milling units and 3D printers.

"I don't want to have different software for each procedure and software that doesn't often communicate with one another. So I like to have one platform and do all my work in one platform – this is very important to me."

Dr Alexandros Manolakis
Manolakis Dental Clinic
Thessaloniki, Greece

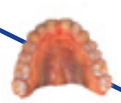
All clinical images in **one** database

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

Easy access to all images

Chairside

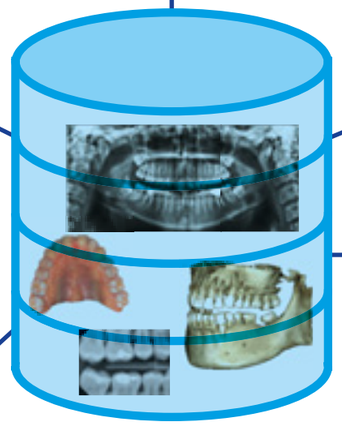
Examination and intraoral scan



Lab

Radiologist

X-ray room



Centralised database

The centralised database allows clinic sites and different specialists to conveniently store, access, and share images and data in real-time.

- Intraoral scans (STL)
- 2D and 3D images
- Clinical photos
- Dental lab order forms
- Virtual patient cases

Planmeca Romexis® Cloud

External partners

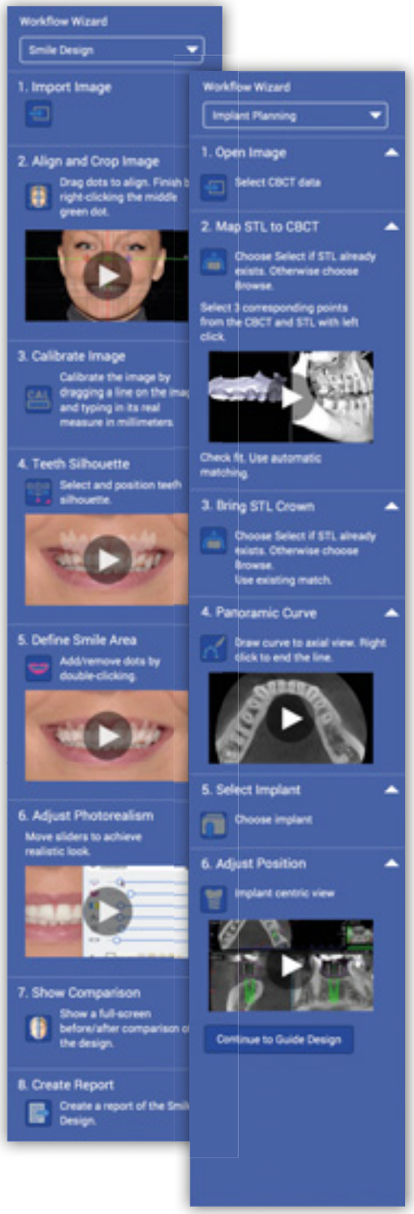
Planmeca Romexis® Cloud is a secure image transfer service for **Romexis®** users and their partners. It is used to easily share images, CAD/CAM cases, or patient data with any specialist or the patients themselves.

- Radiologists
- Second opinions
- Labs
- Surgeons
- Referrals

Superior usability

Easy and enjoyable use from day one

Romexis® *has been designed for the imaging needs of modern clinics. With all 2D and 3D images at your fingertips, you can work with confidence and provide the best treatments. We have optimised the most common workflows to make sure that everyday tasks can be done quickly with minimal clicks. Building on years of feedback, the newest version of Romexis introduces a cutting-edge interface that your entire team will enjoy.*



Key benefits:

- Regularly updated and developed which makes **Romexis®** a modern and up-to-date software
- Designed and coded in-house at the Planmeca headquarters in Finland
- Provides ease of use with minimal clicks – the most common workflows have been optimised to ensure that everyday tasks can be done quickly
- The customisation options allow working faster and free of distractions on the user interface (UI). For example, the patient list content and toolbars can be configured to specific needs
- Personal preferences ensure that newly acquired images are always shown just as the user wishes, and the user can start work with minimal adjustments
- Flexible workflow wizards make using the software easy and enjoyable from day one
- The extensive tutorial video library with over 100 videos available at www.planmeca.com

Modular platform

Grows with the clinic

Romexis® *is a modular software platform that adapts to the needs of any clinic. It grows with the clinic as it allows starting small and adding new capabilities as the business expands – flexibly and risk-free with easy licence updates.*

Key benefits:

- All software modules in a single user interface and all data stored in one database
- Allows starting with any combination of modules and adding more users and modules later on, from 2D to 3D imaging and CAD/CAM with full implant planning functionalities
- Includes specialist modules for e.g. smile design, implantology, orthodontics, and CMF surgery

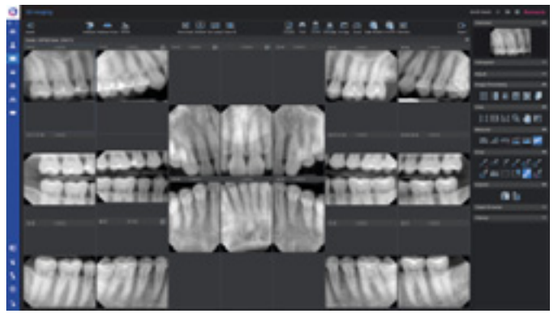
2D imaging
2D cephalometry
3D imaging
3D cephalometry
Smile Design
CAD/CAM
3D Orthodontics
3D implantology
4D Jaw Motion
CMF Surgery

2D imaging

*The **Romexis**® software offers a rich selection of 2D imaging tools that ensure a streamlined and efficient workflow in all situations.*

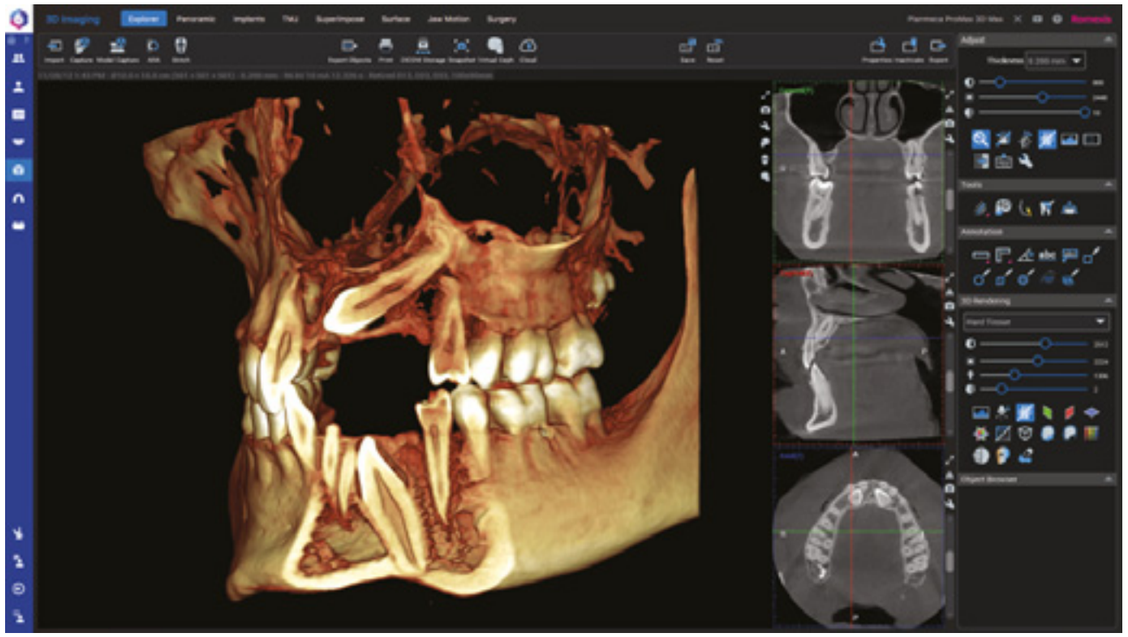
Key benefits

- Allows acquiring images from any source – including TWAIN, still cameras, video devices, DICOM imports, and other digital environments
- Tools for enhancing, annotating, and organising images
- Adaptive prefilters minimise the need to enhance images manually
- Powerful search, filtering, and reporting tools
- Digital radiology process for full accountability – including electronic acquisition requests, reject analyses, interpretations, and central radiological QA reporting



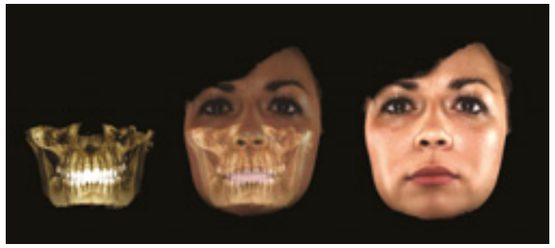
3D imaging

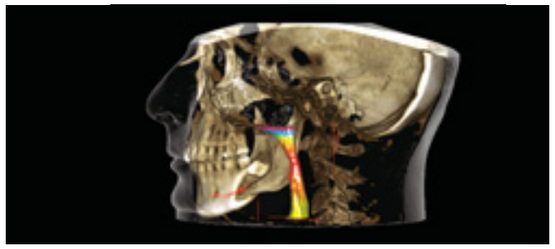
*The **Romexis**® software offers specially designed 3D imaging tools for implantologists, endodontists, prosthodontists, periodontists, orthodontists, maxillofacial surgeons, and radiologists.*



Key benefits

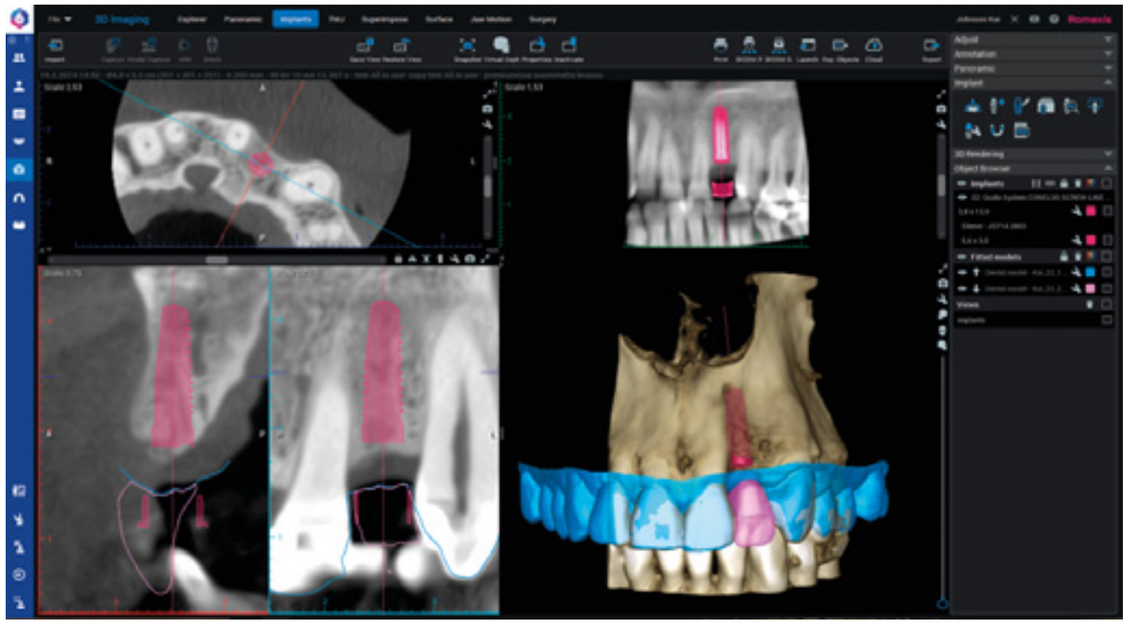
- Support for all types of 3D data – from CBCT images to 3D photos and surface models
- Allows creating panoramic and cross-sectional views
- Tools for marking nerves and annotations
- Analysis tools for airways and TMJ
- Superimposing CBCT images, 3D photos, and models
- Superimposing before-and-after CBCT images for comparison
- Segmenting tool for creating surface models from teeth and jaws
- Reporting of radiological findings
- Tools for orthodontic treaments and implant planning
- CBCT-generated cephalograms with free orientation
- Tool for measuring root canals





3D implantology

*The **Romexis**® implant planning and guide design modules provide all the needed tools for a fully digital implant workflow – from virtual 3D implant planning to implant guide design.*



Key benefits

- Direct CBCT image acquisition with Planmeca CBCT units
- Intraoral scanning with Planmeca intraoral scanners
- Open software – supports DICOM and STL imports and exports free of charge
- Extensive implant and abutment library featuring choices from over 100 manufacturers
  - The full and up-to-date list is available at planmeca.com/romexisimplantlibrary
- Integrated surgical kits with sleeves and fixation pins from multiple different manufactures
- Allows designing tooth- and mucosa-supported guides
- Designing implant guides in-house takes only a few minutes
- Free export for guides in STL format

*"I do a lot of extractions and immediate implantations in the anterior sector. With **Romexis**® guides, both precision and predictability are simply superior. You know exactly the result you are going to achieve. Thanks to the development of guided surgery techniques, cases that used to be complex have become simple. With Romexis, you can create a guide with just a few clicks."*

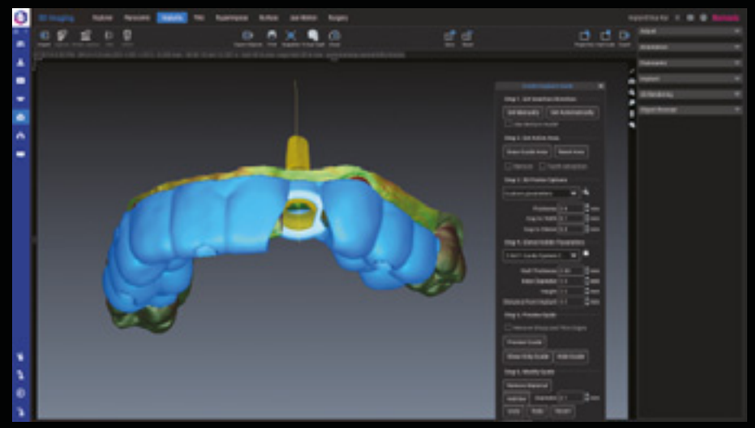
Dr Samuel Dumortier
Dental surgeon
Caen, France

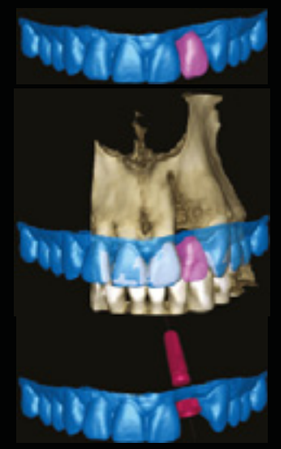
Planmeca Romexis

Design surgical guides in a few minutes

Tooth-supported guide design

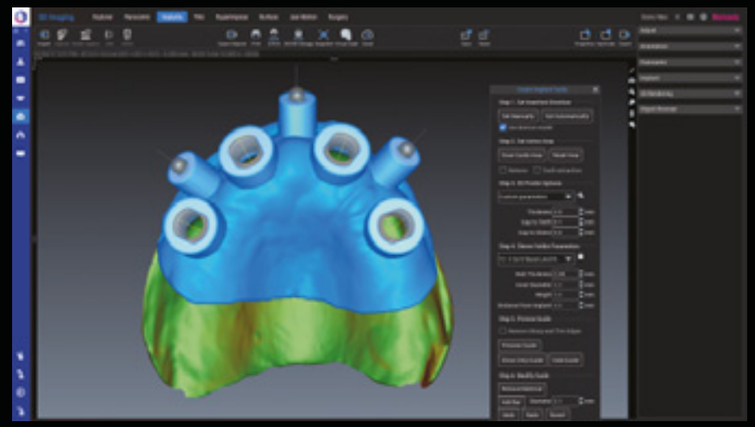
- Superimpose a digital scan and virtual wax-up onto a CBCT image
- Plan an implant with the help of the software's versatile tools
- Design a guide with a few clicks
- Export the guide design in STL format for 3D printing

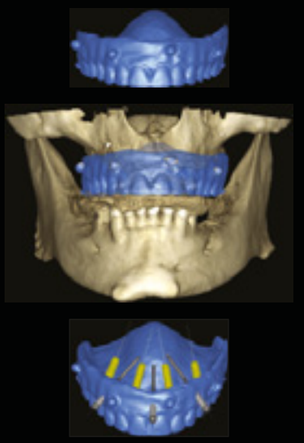




Mucosa-supported guide design

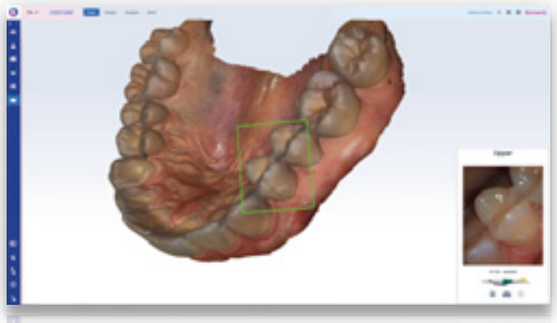
- Superimpose dentures with radiographic markers onto a CBCT image
- Plan the implants and position fixation pins
- Design a mucosa-supported guide with a few clicks
- Export the guide design in STL format for 3D printing

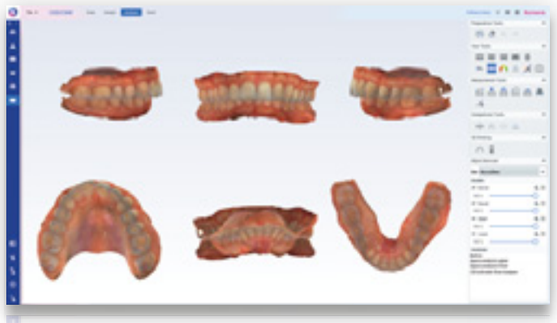




Intraoral scanning

Planmeca Romexis® CAD/CAM *software module has been designed to make working with intraoral scans as simple as possible. The module provides convenient tools for capturing, visualising and analysing digital impressions and streamlines the direct scan-and-send workflow for Planmeca intraoral scanners.*





Fast and enjoyable scanning experience

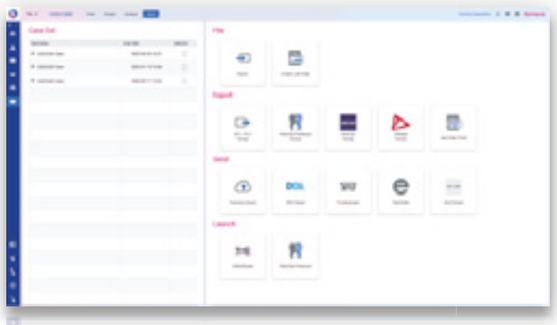
Scanning with **Romexis® CAD/CAM** module is straightforward. You can simply start scanning and the embedded workflow wizards with helpful videos guide you through the process – no prior scanning experience or training needed. For more complex cases, you can easily scan different implications and multiple bites.

User-friendly tools for working with digital impressions

Romexis CAD/CAM module is a perfect tool for patient communication and education. With the module, it is easy to measure tooth widths and arch length, make free measurements, and compare scans captured at different times for tooth wear or treatment follow-ups. You can also create model bases for 3D printing from the intraoral scans with just one click.

Easy one-click exports

With the Romexis CAD/CAM module, it is extremely easy to send scans to partners with **Planmeca Romexis® Cloud** transfer service with a single click. The module also supports exports in STL and PLY file formats as well as to external CAD software and to **Planmeca Romexis® Ortho Studio**. The module also integrates to various external cloud portals, including HeySmile clear aligner service.



Restoration design

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

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

Smooth usability and automatic design of restorations

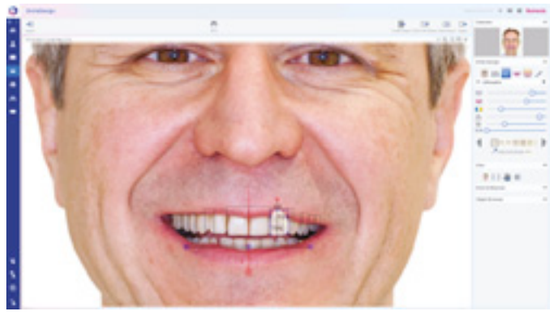
Simple workflow from description to milling

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

The full implant workflow

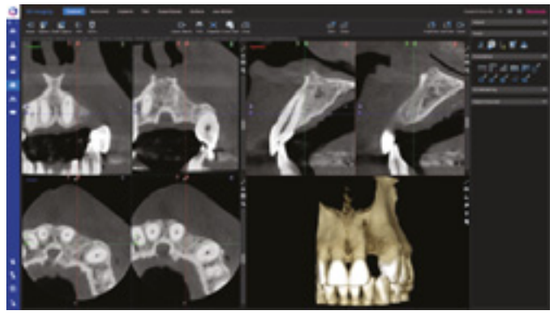
*The complete implant workflow of the **Romexis®** software can be summarised in six simple steps. Everything is controlled and completed within the same software platform – from imaging and scanning to designing and implant guide manufacturing.*

1



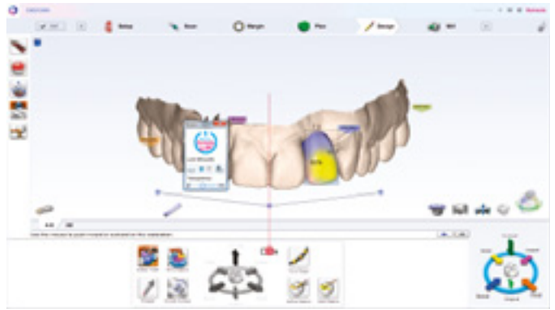
Smile design

2



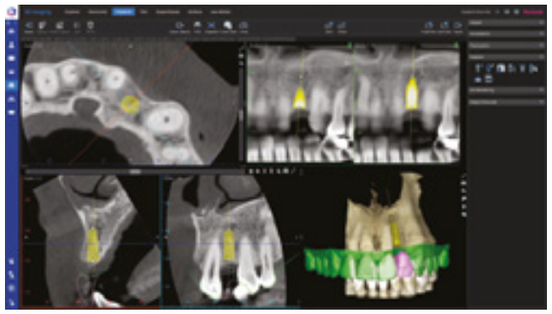
Acquiring a CBCT image

3



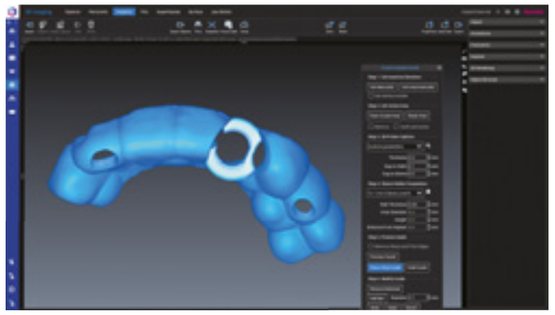
Scanning and virtual wax-up design

4



Implant planning

5



Implant guide design

6

3D printing

*"Nothing is as simple to use yet so extremely powerful as **Romexis®**. You can capture intraoral digital impressions with any open scanner and wax using **Planmeca PlanCAD® Easy.** Simply merge your virtual waxup with DICOM data and design a custom surgical guide for worry-free restorative-driven implant placement. All in one seamless software."*

Dr Walter Renne, DMD
Associate Professor
Medical University of South Carolina

Smile design

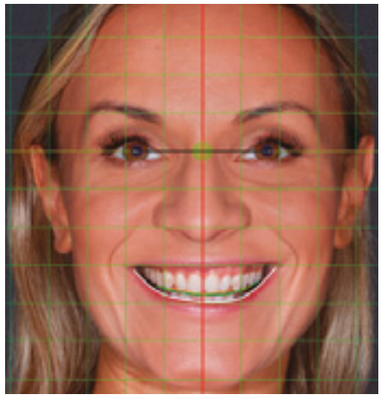
*The **Romexis® Smile Design** software is ideal for digital smile designing, efficient communication, and fast treatment planning.*

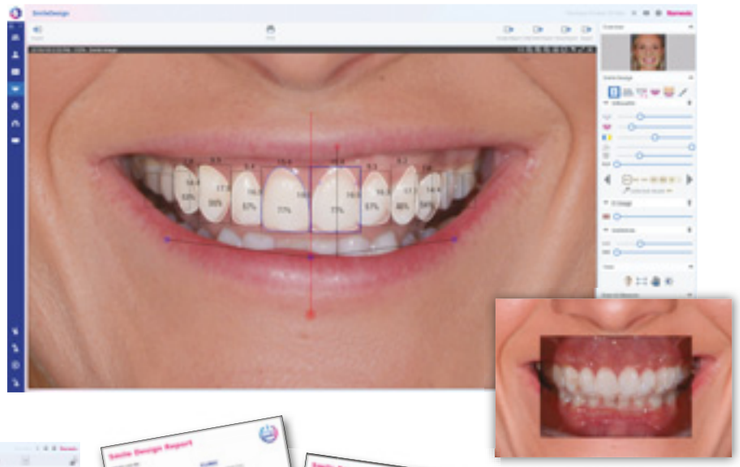
"My patients have also been very pleased to be able to genuinely be part of the process from the start. When the expectations and plans have been carefully reviewed to start with, the end result will more likely meet the expectations of the patient."

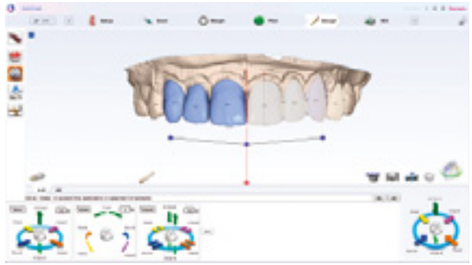
Aki Lindén, CDT
Oral Lindent Hammaslaboratorio
Helsinki, Finland

Key benefits

- Fast and easy to use – a new smile can be designed in 3 minutes using a 2D face photo and intelligent tooth silhouettes
- Case acceptance is increased drastically by improving patient communication
- Team collaboration is revolutionised by communicating visually with other specialists and dental laboratories
- Completed smile designs can be exported to any CAD/CAM software to put the plan into practice
- Designs can be easily sent to patients, other specialists, or dental labs via the **Romexis® Cloud** image transfer service







Automatic reports for easy communication

Tools for any type of case

4D jaw motion tracking

Planmeca 4D™ Jaw Motion *is the only true CBCT integrated solution for tracking, recording, visualising and analysing jaw movement in 3D – 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 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 visualised, analysed, and stored to the **Romexis®** imaging software in real time.

Key benefits

- The only CBCT integrated jaw tracking solution on the market
- Provides incomparable visualisation and measurement data of mandibular 3D movements in real-time – also when using the **Planmeca Ultra Low Dose™** imaging protocol
- Movements are visualised in the Romexis software without delay
- Movements can be recorded for later use and analysis
- Automatic creation of jaw movement reports in PDF format
- Digital dental models can be aligned with a CBCT image for improved visualisation of the occlusion

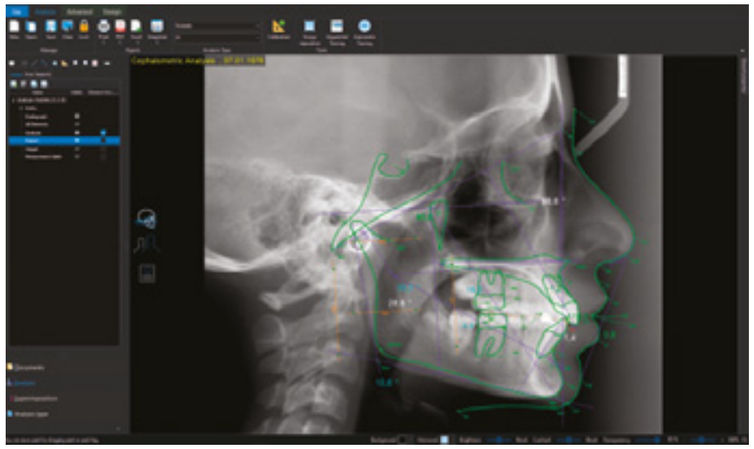
*"I have found the **Planmeca ProFace®** and **Planmeca 4D™ Jaw Motion** features incredibly relevant to my work. A CBCT enriched with 3D photo, 3D models and mandibular dynamics allows me to replicate my patient with extreme precision. Working in a single **Planmeca Romexis®** platform on the models that provide full information makes my clinical results excel."*

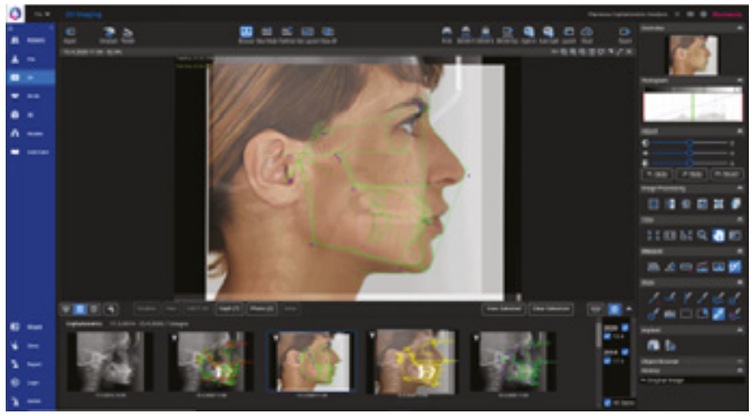
Dr Alvaro Ordonez, DDS
South Miami Family Dental
Florida, United States

2D cephalometry

Romexis® Cephalometric Analysis module

*The **Romexis® Cephalometric Analysis** module includes tools for creating cephalometric analyses and superimpositions, as well as for simulating orthodontic and orthognathic treatments.*





Key benefits

- Cephalometric analyses in a few seconds!
- Automatic landmark identification
- 40+ analysis types included – can also be customised
- Supports lateral, frontal, and arch analyses
- Superimposing tracings, radiographs, and photos
- Cephalometric VTO and prediction image
- Growth analysis

Compatible with the Windows operating system

Online automatic analysis service

*Users can also order automatic cephalometric analyses as an online service directly from the **Romexis®** software. The analyses can be downloaded immediately when needed – regardless of time and place.*

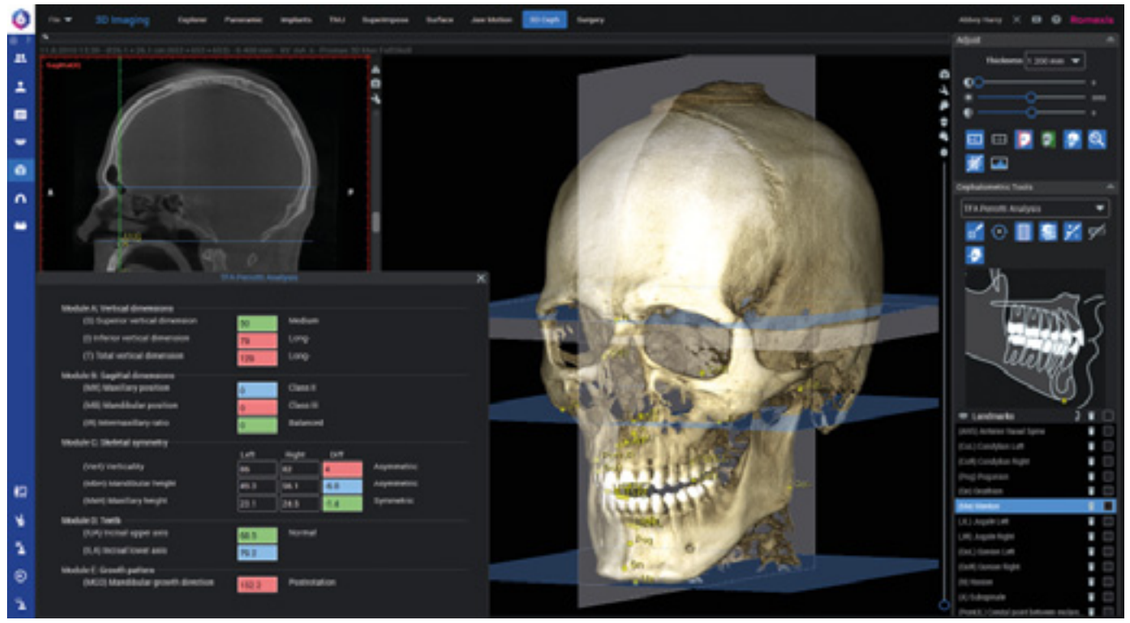
Key benefits

- Automatic cephalometric image tracing online
- Over 50 analyses available for download immediately after tracing
- Direct link from the **Romexis®** 2D module to the analysis service
- Pay-per-use – no initial investment needed

3D cephalometry

Romexis® 3D Cephalometry module

*The **Romexis® 3D Cephalometry** software module is the leading-edge tool for performing orthodontic analysis using CBCT images. The true 3D analysis with clear visual representation makes the module perfect for anyone interested in entering the world of 3D analyses in orthodontics.*



Key benefits:

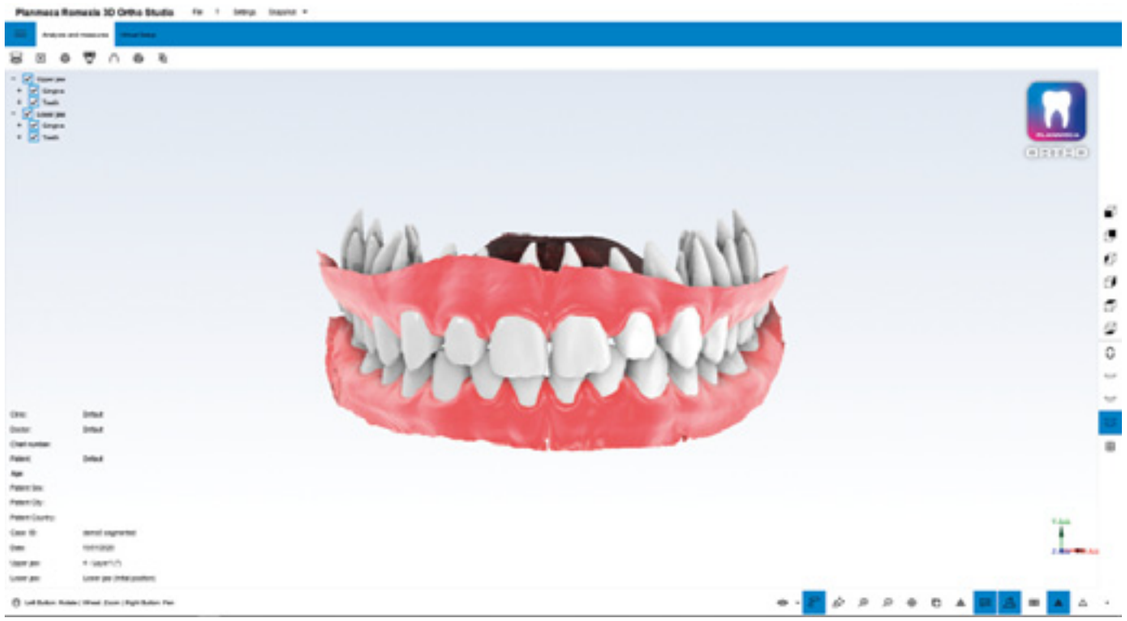
- The placing of anatomical landmarks is done intuitively in 3D rendering and on 2D views. The reference images help the user to find the right position for each landmark. The orientation of the skull is automatically adjusted for the next landmark to be placed.
- The software includes the TFA Perrotti Analysis type, Total Face Approach (TFA), which is a true 3D cephalometric analysis type created by Dr Giovanna Perrotti.
- The analysis measurements can be viewed dynamically during the landmark placement. The patient-specific measurement values are enriched by colours indicating any deviations from the norm.
- The seamless connection with the **Romexis® CMF Surgery** module allows the user to continue to surgical planning directly after the 3D analyses.
- The **Romexis® 3D Cephalometry** software licence includes all the advanced Romexis tools for orthodontic needs, such as the airways, segmenting, and superimposition tools, as well as the TMJ view.

*"The **Romexis® 3D Cephalometry** module helps orthodontic diagnosis by visualising the case in a clear and concise manner. Having a distinct graphical representation of the case allows for the intuitive and easy evaluation of the case. It is also an effective patient education tool."*

Dr Giovanna Perrotti, DDS,
Specialist in Orthodontics
CEO of Lake Como Institute
Como, Italy

3D orthodontic tools

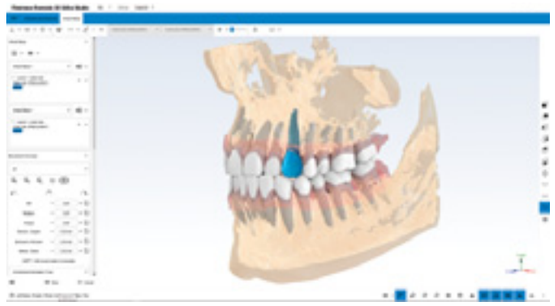
*The **Romexis® 3D Ortho Studio** module offers orthodontists and dental laboratories several innovative tools for treatment planning in 3D. The advanced software allows producing clear aligners in-house.*

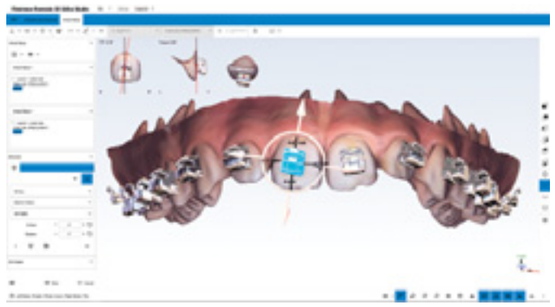


Key benefits

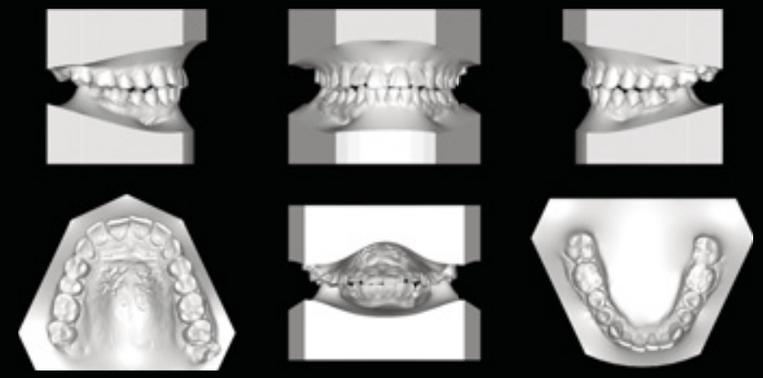
- Dental cast analysis tools for examining space, tooth size, cross sections, and occlusions
- Allows attaching a virtual base for a result that looks like a traditional plaster case
- Treatment plans are established by moving segmented teeth to the treatment objective
- Can combine segmented roots and bone surfaces from a CBCT image for improved visualisation
- Allows creating a model series between the initial setup and treatment objective for aligner manufacturing
- Virtual bracket placement and indirect bonding tray creation.
- 3D comparisons of treatment plan models and patient scans can be made to verify treatment progress
- Digital dental models are exportable in STL format for 3D printing and custom appliance design and manufacturing

Compatible with the Windows operating system

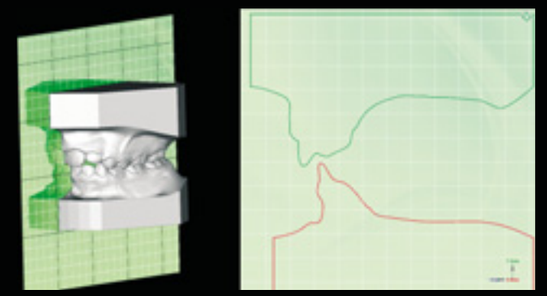




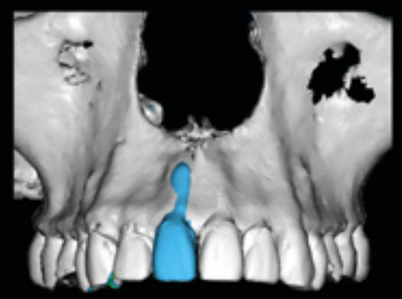
1 Planmeca Romexis



Create a virtual base.

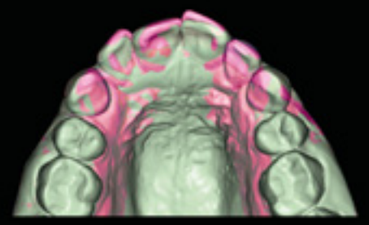


Utilise dental cast analysis tools.



Use information from a CBCT image to visualise roots and bone surfaces when planning treatments.

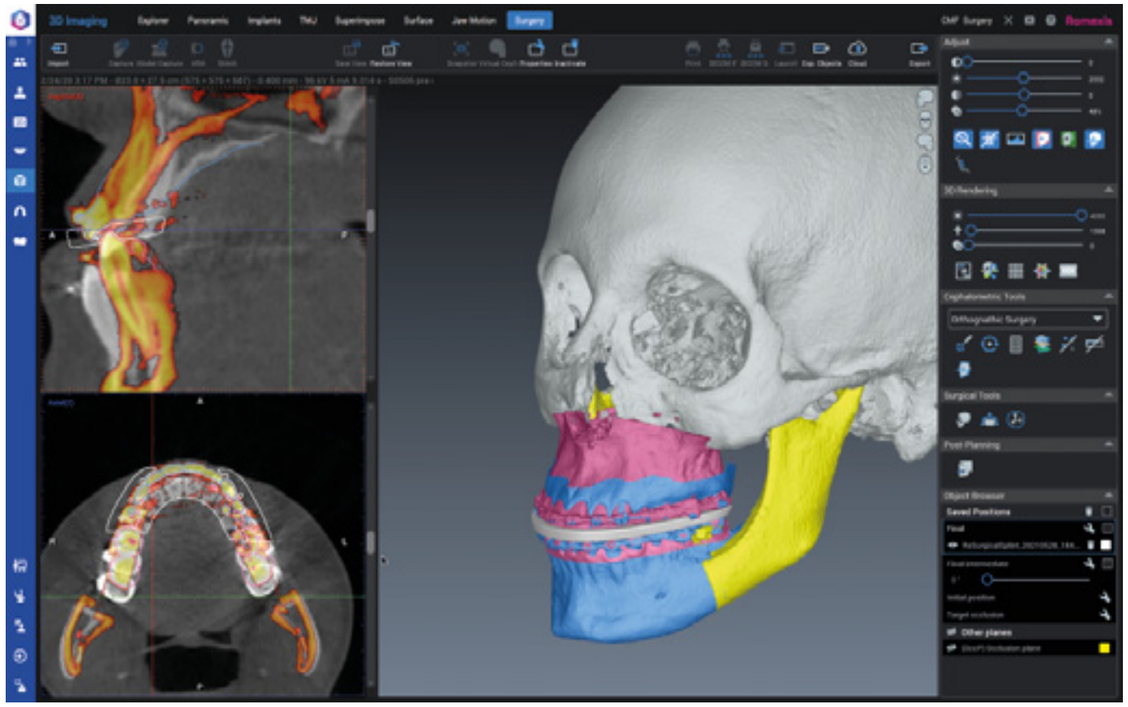
Create models for 3D printing and appliance manufacturing.



Verify the treatment's progress.

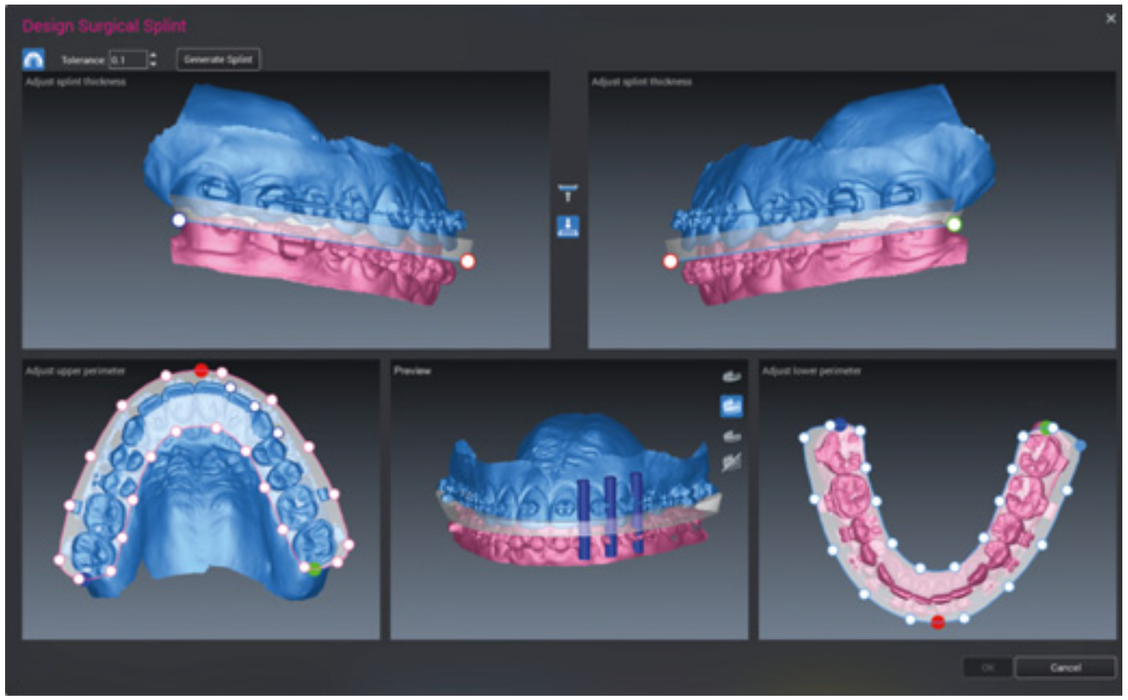
CMF Surgery

*The **Romexis® CMF Surgery** module is an advanced tool for surgical teams looking to provide the best possible care. It has been designed for orthognathic surgery planning, with all diagnostic data acquired with and available in the same software – including CBCT images, 2D X-ray images, and model scans.*



Key benefits

- Allows creating a virtual patient by merging 3D data
- Numerous advanced tools for pre-planning, such as locating and marking the mandibular nerve to help in mandible osteotomy planning
- Step-by-step guided osteotomy planning tool for creating adjustable cutting templates to fit individual anatomy. Allows creating plans for:
  - Le Fort I, One-piece, Two-pieces and Three-pieces
  - BSSO Hunsuck and Obwegeser, inverted L, vertical ramus
  - Genioplasty
- The osteotomy lines can be verified in detail in the slice views
- The plan can be enriched with landmark-based analyses and measurements
- Dynamic superimposition comparing preoperative images and virtual plans
- Allows designing both intermediate and final splints and exporting them as STL files for 3D printing



Centralised image archive

*The **Romexis® Dental PACS** module has been specifically designed for the needs of dental group practices and universities. The capability to store images from 3rd party devices, support for multisite clinics and the capability to set up a single image archive for all types of images and treatment plans makes Romexis a truly unique software solution.*

3rd party X-ray software integration

The **Romexis® Dental PACS** module enables:

- Storing 2D and 3D images captured with 3rd party devices into Romexis server using DICOM standard commands*
- Support for archiving STL intraoral scans in DICOM standard format
- Querying and retrieving images from Romexis server to make them available in 3rd party X-ray software**

Synchronisation of multiple satellite sites

The Romexis Dental PACS module allows:

- Making images available to clinicians and specialists in any location***
- Transferring images, annotations, and treatment plans between Romexis servers in different locations
- Flexible architecture adapts to the needs of your business
- Scheduled storage allows data transfer to take place at quiet hours saving daytime bandwidth for more important functions

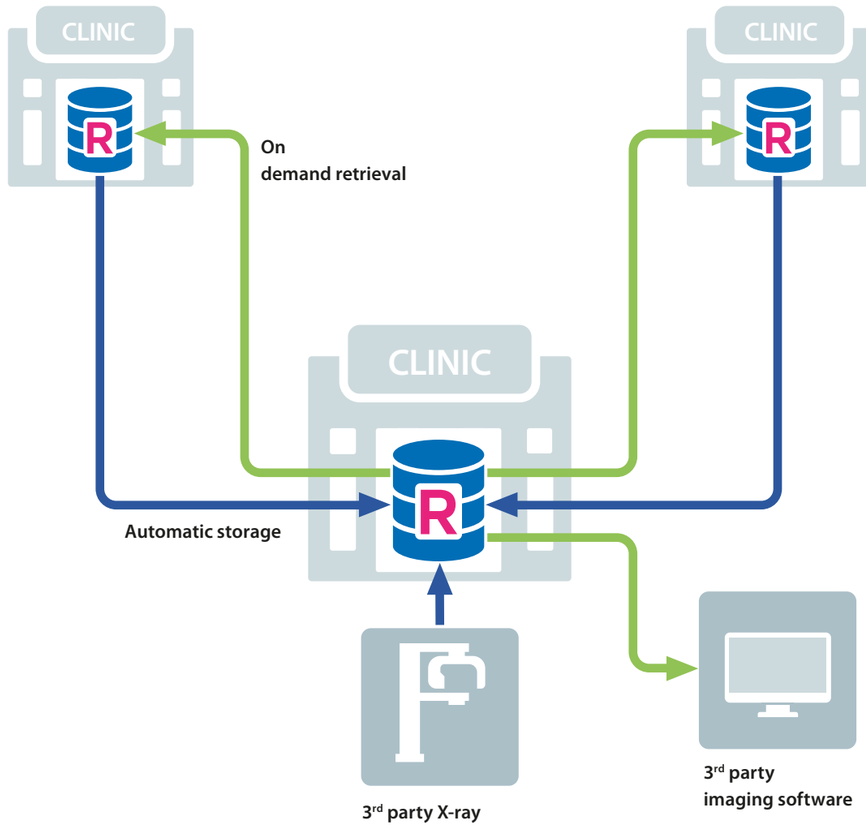
Enterprise integration

The following functions allow the server level integration of Romexis to enterprise systems and imaging workflows:

- HL7 Messaging Standard support allows the exchange of patient and image information with Romexis server
- DICOM Worklist Broker SCP allows Romexis server to publish imaging referrals to compliant imaging modality software

* DICOM Storage SCU support required in the 3rd party imaging software
** DICOM Q/R SCU support required in the 3rd party imaging software
*** Network bandwidth may limit feasibility of 3D image transfer. VPN recommended for connections between sites.
See Romexis DICOM Conformance Statement and Romexis IHE Integration Statement for more

Integrating satellite Romexis sites and 3rd party products to Romexis server using Romexis Dental PACS module



Key benefits

- Single system for all diagnostic, treatment planning and archiving functions
- Device independent image archive including 2D and 3D X-rays and STL intraoral scans
- Server level enterprise integration capabilities
- Best-in-class security, traceability and identity management
- GDPR and HIPAA compliant

Share images and expertise online

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

Romexis® Cloud – versatile possibilities for communication

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

Key features

Transfer any type of information

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

Flexible sending options enable easy communication with all parties

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

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

IMAGING WORKFLOW

Planmeca equipment owner

- Romexis software
- Romexis Cloud subscription

General practice, specialist, radiologist

- Free Romexis Viewer application or Romexis

CAD/CAM WORKFLOW

General practice

- Romexis software
- Romexis Cloud subscription

Dental lab

- Free Romexis LabApp application

Increased flexibility with Planmeca mRomexis™ tablet application

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

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

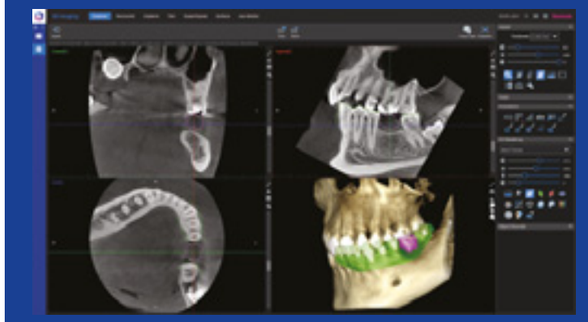
Planmeca mRomexis™

View images with free Romexis® Viewer application

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

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

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



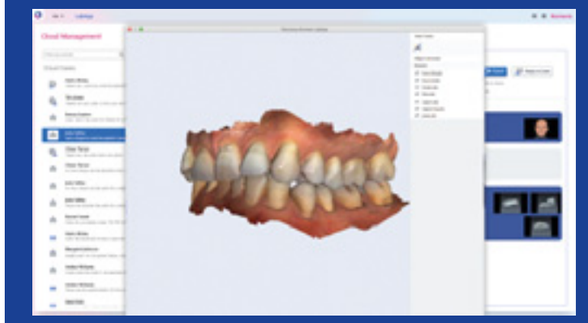
Planmeca Romexis® Viewer

Dental lab communication with free Romexis® LabApp application

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

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

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



Planmeca Romexis® LabApp

Clinic efficiency with networked devices

All Planmeca dental units, imaging devices and CAD/CAM solutions can be networked with one software platform. This intelligent all-in-one solution allows clinics to generate valuable data on their digital equipment – making it the ideal choice for dental chains.

All devices and software from one place

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

All devices in one network

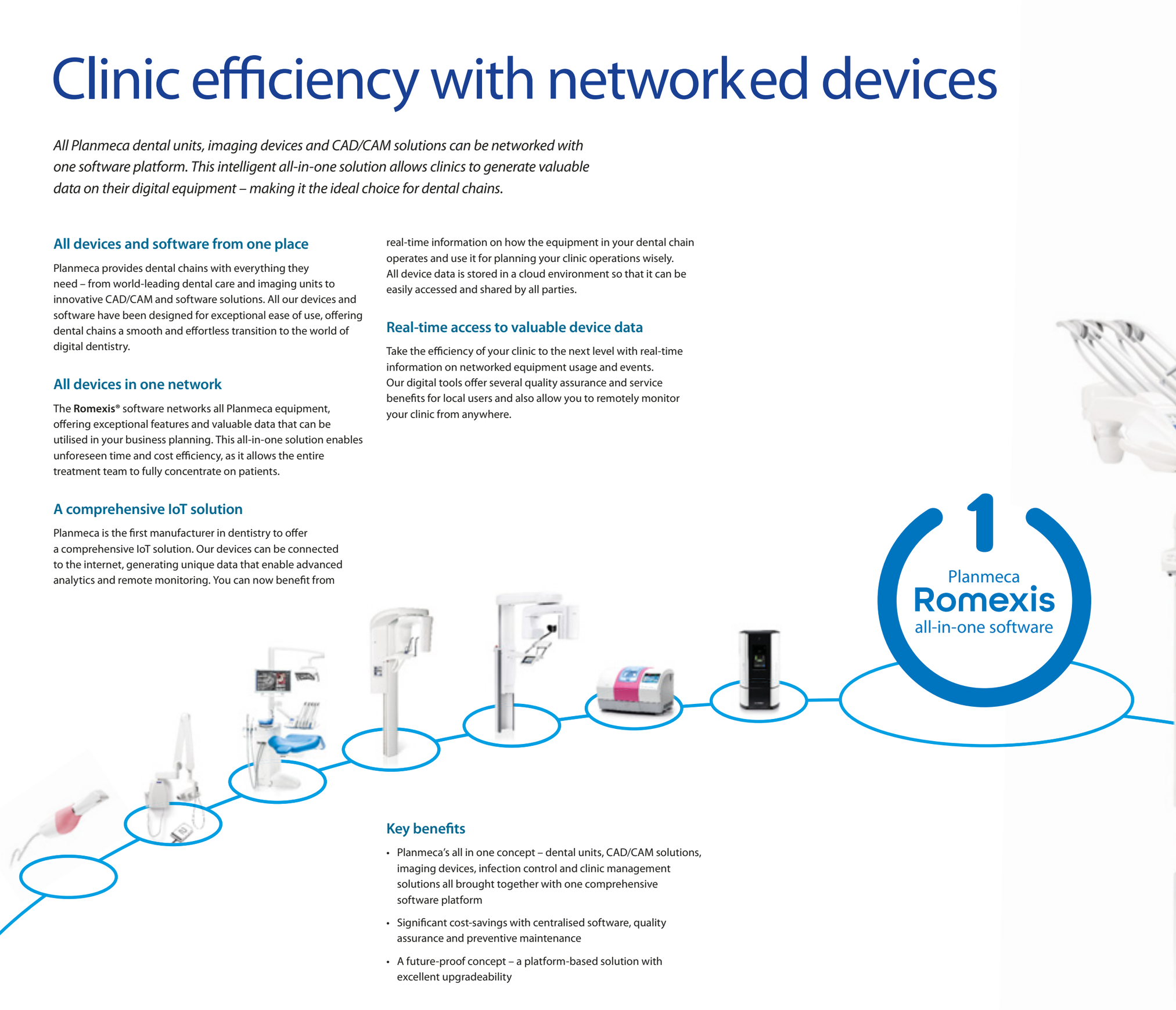
The **Romexis®** software networks all Planmeca equipment, offering exceptional features and valuable data that can be utilised in your business planning. This all-in-one solution enables unforeseen time and cost efficiency, as it allows the entire treatment team to fully concentrate on patients.

A comprehensive IoT solution

Planmeca is the first manufacturer in dentistry to offer a comprehensive IoT solution. Our devices can be connected to the internet, generating unique data that enable advanced analytics and remote monitoring. You can now benefit from real-time information on how the equipment in your dental chain operates and use it for planning your clinic operations wisely. All device data is stored in a cloud environment so that it can be easily accessed and shared by all parties.

Real-time access to valuable device data

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



Key benefits

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

Technical specifications

Compatibility

Supported 2D modalities
- Intraoral images
- Panoramic images
- Cephalometric images
- 2D linear tomography
- Photos
- Stack images (CBCT and panoramic slices)

Supported 3D modalities
- CBCT images
- 3D photos
- 3D surface scans

Supported photo sources
- Intraoral cameras
- Digital cameras or scanners (import or TWAIN capture)

Operating systems
- Windows 8.1 Pro (64 bit) / Windows 10 Pro (64 bit)
- Windows Server 2012 to Windows Server 2019
- macOS Mojave (10.14)* / macOS Catalina (10.15)*

For detailed information, please see system requirements for Planmeca Romexis at planmeca.com

Image formats
- JPEG or TIFF (2D images)
- DICOM (2D and 3D images)
- STL, OBJ, PLY (3D surface models)
- DICOM, TIFF, JPEG, PNG, BMP, STL, PLY (imports/exports)

Image size
- 2D X-ray images: 1–9 MB
- 3D X-ray images: typically 50 MB–1 GB

DICOM 3.0 support
- DICOM Import and Export
- DICOM DIR Media Storage

Interfaces
- TWAIN Client
- PMBridge (patient information and images)
- VDDS (patient information and images)
- InfoCarrier (patient information)

3rd party software integrations
- Dolphin Imaging
- NobelClinician
- Simplant
- Straumann coDiagnostiX
- Cybermed N-Liten
- 3D Diagnostics service
- 360imaging service

Supported languages
- More than 20 different languages

* The Cephalometric Analysis module, 3D Ortho Studio module and Planmeca PlanCAD Easy are only supported on Windows operating systems.

Included in the modules

2D imaging

Romexis 2D Standard
- 2D image acquisition with Planmeca imaging devices
- TWAIN acquisition with 3rd party imaging devices
- Support for intraoral, panoramic, and cephalometric X-ray images, as well as 3D snapshots and photos
- Image processing, measurement and annotation tools
- Support for image study templates
- Customisable prefilters for all image types
- Multi-page printing with customer branding
- Imports and exports: DICOM, JPEG, PNG, TIFF, and BMP
- Exports with free Romexis Viewer
- Video, PDF, and document attachments
- DICOM Media Storage (DICOMDIR)
- User management and permissions, including audit trails
- Finding patients by image type, date, or comment
- Assigning patients to users

Romexis Smile Design
- *Romexis 2D Standard*
- Photorealistic simulation of new smiles
- Teeth silhouette with teeth shape library, creating custom shapes
- Grid for edentulous cases
- Tooth shade guide and selection
- Facial analysis tools
- Mapping facial and intraoral photos
- Exports to CAD/CAM or other 3D systems
- Automatic smile design report and custom printing

Romexis 2D Implant
- *Romexis 2D Standard*
- Implant libraries featuring +100 manufacturers
- Generic crown library

Romexis Cephalometric Analysis**
- *Romexis 2D Standard*
- Cephalometric tracing and analyses
- Manual or automatic tracing of anatomical landmarks
- +40 analysis types
- Treatment follow-up using superimpositions
- Orthognatic surgery simulation and prediction image
- Analysis editor

3D imaging

Romexis 3D Standard
- *Romexis 2D Standard*
- Image acquisition with Planmeca CBCT units
- MPR views (axial, sagittal, coronal)
- 3D rendering views
- Pseudopanoramic and cross-sectional views
- Image processing, annotation, and measurement tools
- Imports: DICOM, STL
- Exports: DICOM, STL, OBJ
- Converting CBCT images to STL files
- Segmentation of jaws and tooth
- Segmentation of airways
- Segmentation using region growing
- Nerve canal tracing and root canal marking
- Mapping CBCT images and dental models or any STL file
- Creating virtual cephalometric images
- Creating 2D snapshots and 2D slice stacks
- Support for Planmeca 3D photos
- Mapping CBCT images and 3D photos
- Superimposing 3D photos
- Shaping 3D photos
- Multi-page printing with customer branding
- Launch for external applications (Dolphin, Co-Diagostix, Simplant, Nobel Clinician etc.)

Romexis 3D Advanced
- *Romexis 2D Standard*
- *Romexis 3D Standard*
- TMJ views
- Superimposing two CBCT volumes

Romexis 3D Implant
- *Romexis 2D Standard*
- *Romexis 2D Implant*
- *Romexis 3D Standard*
- *Romexis 3D Advanced*
- Implant planning tools (alignment, implant extension, implant safety areas)
- Implant centric views
- Implant libraries featuring +100 manufacturers
- Abutment libraries and a generic abutment designer
- Generic crown library
- Implant verification tool
- Automatic implant reports

Romexis 3D Implant Guide
- *Romexis 2D Standard*
- *Romexis 3D Standard*
- *Romexis 3D Advanced*
- *Romexis 3D Implant*
- Implant guide design tools for tooth supported guides
- Implant guide design tools for mucosa supported guides
- Presets for 3D printers
- Automatic Implant and sleeve report
- STL export for guides

Romexis 4D Jaw Motion
- *Romexis 2D Standard*
- *Romexis 3D Standard*
- *Romexis 3D Advanced*
- 4D Jaw motion recordings
- Jaw movement visualisation and analysis tools

Romexis CMF Surgery
- *Romexis 2D Standard*
- *Romexis 3D Standard*
- *Romexis 3D Advanced*
- Placing and defining anatomical landmarks
- Dynamic measurements and analyses
- Head orientation tool for manual adjustment
- Viewing bone segment projections in slice views
- Planning maxilla osteotomies: Le Fort I, One-piece, Two-pieces and Three-pieces
- Planning mandible osteotomies: BSSO Hunsuck and Obwegeser, Inverted L, vertical ramus and Genioplasty
- Showing osteotomy lines dynamically in slice views
- Showing marked nerves during osteotomy planning
- Fitting the target model
- Movement planning with presets for the most used movement types
- Preoperative to virtual plan superimposition
- Creating intermediate and final splints, open STL export

Romexis 3D Cephalometry
- *Romexis 2D Standard*
- *Romexis 3D Standard*
- *Romexis 3D Advanced*
- Placing anatomical landmarks in 3D view or on 2D slice views
- Head orientation tool for manual adjustment
- Dynamic measurements and analyses
- Measurement table for comparisons against the norms
- Landmark, plane, and measurement visualisation in 2D views and 3D
- Analysis types: TFA Perrotti analysis, Orthognathic Surgery analysis

Romexis 3D Ortho Studio**
- *Romexis 2D Standard*
- *Romexis 3D Standard*
- Model preparations (smoothing, scultpting, virtual base)
- Measurements and analyses
- Tooth segmentation
- Orthodontic treatment planning and simulation
- Aligner model series creation
- STL and case exports
- PDF reports
- Ortho Studio Viewer

CAD/CAM

Romexis CAD/CAM
- *Romexis 2D Standard*
- Scanning with the Planmeca Emerald S or Planmeca Emerald intraoral scanners**
- Taking 2D snapshots with the scanners**
- Model orientation and viewing
- Contact map calculations
- Tooth width, arch length, and free measurements
- Bolton and space analyses
- Model base creation
- Comparison of scans
- Imports and exports: STL, PLY
- Export: 3Shape, exocad, PlanCAD Premium formats
- Send: Romexis Cloud, DDX Cloud, TruAbutment and HeySmile
- Creating lab order forms (PDF)

PlanCAD Easy – Scan**
- *Romexis 2D Standard*
- Scanning with the Planmeca Emerald S or Planmeca Emerald intraoral scanners
- Taking 2D snapshots with the scanners
- Marking margin lines
- Exporting scans: STL, PLY
- Creating lab order forms (PDF)

PlanCAD Easy – Design & Mill**
- *Romexis 2D Standard*
- Designing inlays, onlays, veneers, crowns, and bridges
- Automated design from an anatomic tooth library
- Importing scans and restorations (STL) for designing and milling
- Milling restorations with the Planmeca PlanMill 40 S or Planmeca PlanMill 30 S milling units
- Exporting restorations (STL)

PlanCAD Easy – Complete**
- *Romexis 2D Standard*
- *PlanCAD Easy – Scan*
- *PlanCAD Easy – Design & Mill*

PlanCAD Easy – Mill only**
- *Romexis 2D Standard*
- Importing restorations (STL) for milling with the Planmeca PlanMill 40 S or Planmeca PlanMill 30 S milling units

Clinic efficiency

Romexis Clinic Management
- *Romexis 2D Standard*
- Real-time monitoring of Planmeca devices
- Logs and summaries of device usage
- Bi-directional communication for dental units
- Integrated quick guides

DICOM options

DICOM Print
- DICOM Print SCU

DICOM Full
- DICOM Print SCU
- DICOM Storage SCU
- DICOM Worklist SCU
- DICOM Query/Retrieve SCU
- DICOM Storage Commitment SCU
- DICOM MPPS

DICOM Dental PACS
- *DICOM Full*
- DICOM Storage SCP
- DICOM Query/Retrieve SCP
- DICOM Storage Commitment SCP
- DICOM Worklist Broker SCP
- Access control
- Event logging
- Resend capability

HL7 Standard Messaging
- IHE IT Infrastructure profiles for document and patient handling
- IHE Radiology profiles for imaging and reporting

Romexis Cloud
- Secure transfer of cases including images and treatment plans
- Sending of cases Romexis-to-Romexis using integrated case tracking
- Sending of cases from Romexis to any email recipient

** Support for the Windows operation system only

CE 0598 MD Planmeca Romexis
CE MD Planmeca Emerald
CE Planmeca PlanMill 40 S
CE Planmeca Creo C5
CE Planmeca PlanCAD Easy
CE MD Planmeca Emerald S
CE Planmeca PlanMill 30 S

CE 0598 MD Planmeca Viso
CE 0598 MD Planmeca ProOne
CE 0598 MD Planmeca ProSensor HD
CE 0598 MD Planmeca Compact i
CE 0598 MD Planmeca ProMax
CE 0598 MD Planmeca ProX
CE MD Planmeca ProScanner 2.0
CE MD Planmeca Solanna

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

Follow us on social media!

PLANMECA

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