PLANMECA ROMEXIS® SOFTWARE



ENGLISH

PLANMECA

All-in-one software platform
- For all needs and specialities 4
- Powered by AI 5
- All clinical images in one database 6
- Superior usability 7
- Modular platform 8

2D imaging 9

3D imaging 10

Specialist tools
- Implantology 12
- Cephalometry 14
- CMF Surgery 16

CAD/CAM
- Intraoral scanning 18
- Restoration design 19
- Orthodontic simulation 20

Smile design 21

Supporting features
- Centralised image archive 22
- Share images and expertise online 24
- Technical specifications 26

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. The powerful AI-based tools optimise daily tasks and boost patient communication.*



Mac* and Windows compatible

AI always included

*Some features only supported in Windows operating systems.

For all needs and specialities

Planmeca Romexis® *is a flexible and powerful software platform, offering a rich selection of intuitive tools and many time-saving features for all needs and specialities. It has been designed to meet the imaging needs of any dental facility – from a small clinic to a large hospital.*



Key benefits

- All-in-one software for 2D and 3D imaging, and CAD/CAM
  - Supports complete workflows from capturing, viewing and storing dental images to diagnosis, analysis, and treatment planning, as well as designing dental restorations and treatment devices (surgical guides, splints etc.)
  - Extensive specialist tools for a wide range of specialties
- Well-proven concept for dental clinics of all sizes from a single-chair clinic to a large hospital or group practice
  - Networked connectivity built around a centralised database
  - Already over 200,000 users around the world
- Modern and user-friendly UI
  - Recognised with Golden A' Design Award
- Open and compatible software platform
  - Supports multiple file formats, such as JPEG, DICOM and STL
  - Integration with practice management and 3rd party software
  - Device-independent dental image archive using the DICOM standard
- Built-in data security
  - Updated regularly with new features and functions

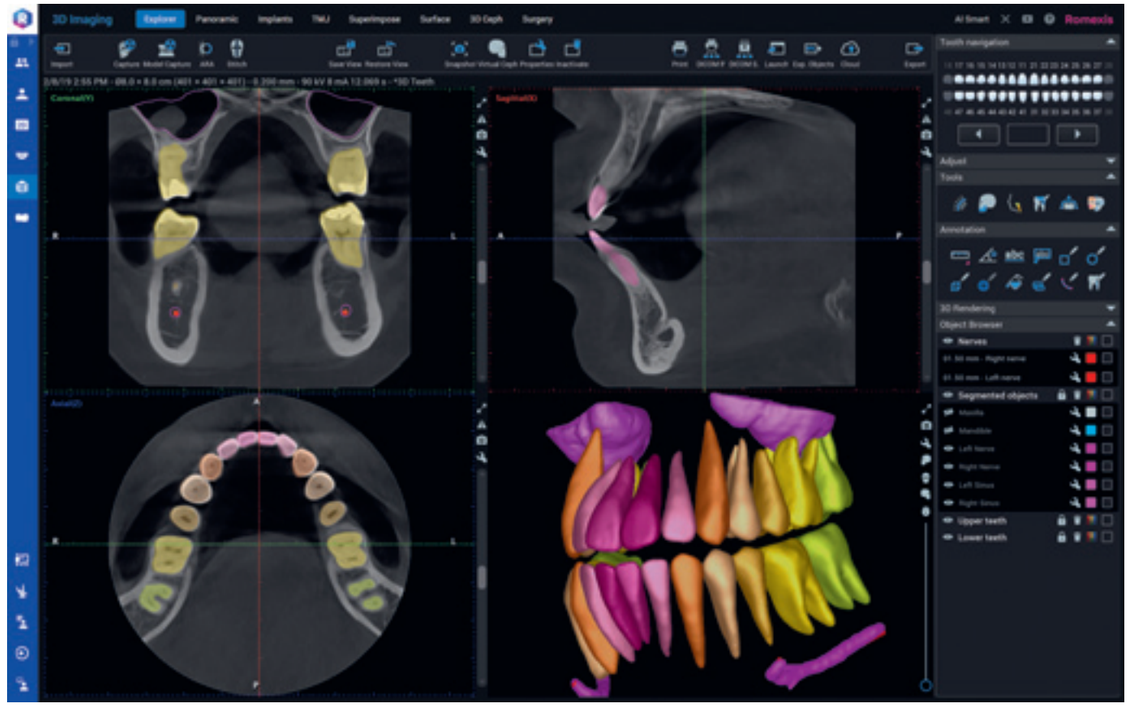


"I don't want to have different software for each procedure because they don't often communicate with one another. So I like to have one platform and do all my work in one platform – this is very important to me.

Dr Alexandros Manolakis
Manolakis Dental Clinic
Thessaloniki, Greece

Powered by AI

Planmeca Romexis® *offers several helpful AI-powered features to optimise your daily work, giving you more time to focus on your patients and their dental treatments. These AI tools are designed to complement your expertise and help make patient assessments and treatment planning smoother and more efficient.*



Unleash the power of AI

With the AI-powered features of **Planmeca Romexis®**, you will quickly experience how much smoother your daily work can be. Think of AI as your smart assistant, automatically handling time-consuming tasks, while unlocking entirely new possibilities in dental care.

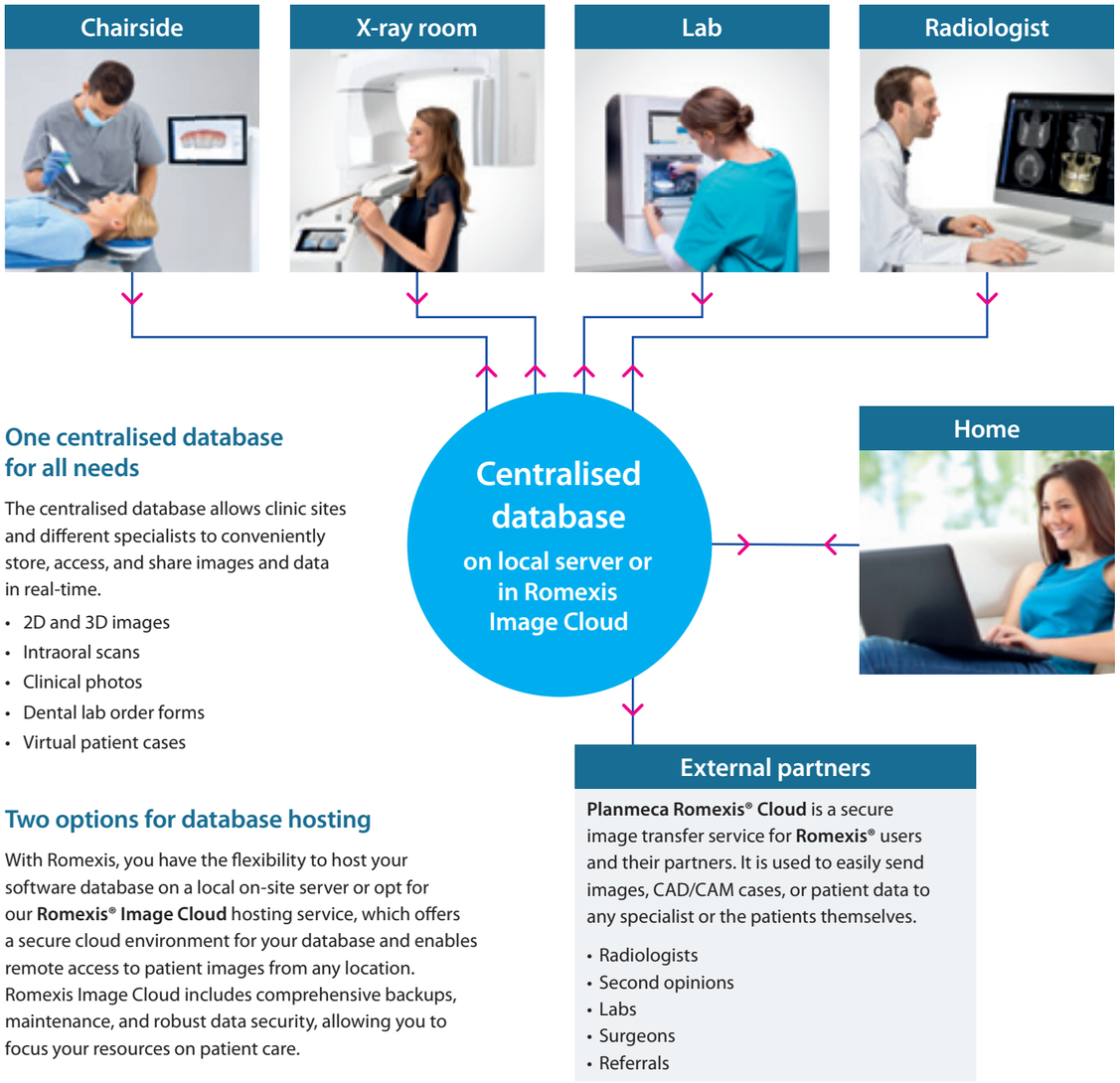
Key benefits

- Automatic tooth numbering reduces clicks and enables automating routine tasks
  - Simplifies organisation of intraoral X-ray studies
  - Easy tooth-based image navigation for CBCTs
  - Images can be filtered based on a tooth presence
- Automatic recognition and segmentation of anatomies for easy visualisation and optimised treatment planning
  - All major anatomies can be viewed as surface models in distinct colours
  - Automatic nerve detection
  - Automatic fusion of digital impression and CBCT
- Entire workflows automated from start to finish
  - Fully automated implant plan proposal, including a surgical guide tailored to user preferences
  - Automatic orthodontic analyses and smile simulation based on digital impressions
  - Automatic 3D cephalometric analyses
- Automatic cephalometric landmark detection for 2D cephalometric and CBCT images

The AI-powered features and tools of Planmeca solutions are designed to complement the expertise of dental professionals. While these tools provide valuable assistance in clinical practice, the clinical judgment of dental professionals is essential for interpreting results and making informed decisions. Consequently, healthcare professionals must intervene and verify AI-generated results before and during their application.

All clinical images in one database

*With the **Romexis®** software platform, all clinical images are stored in a single database, making it easy for all clinic members to share and access patient data. Through the centralised database, dental staff can access patient images and treatment plans simultaneously and without delay, whether in small practices or large organisations. Romexis also supports multi-site solutions by connecting one master database to local databases.*



One centralised database for all needs

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

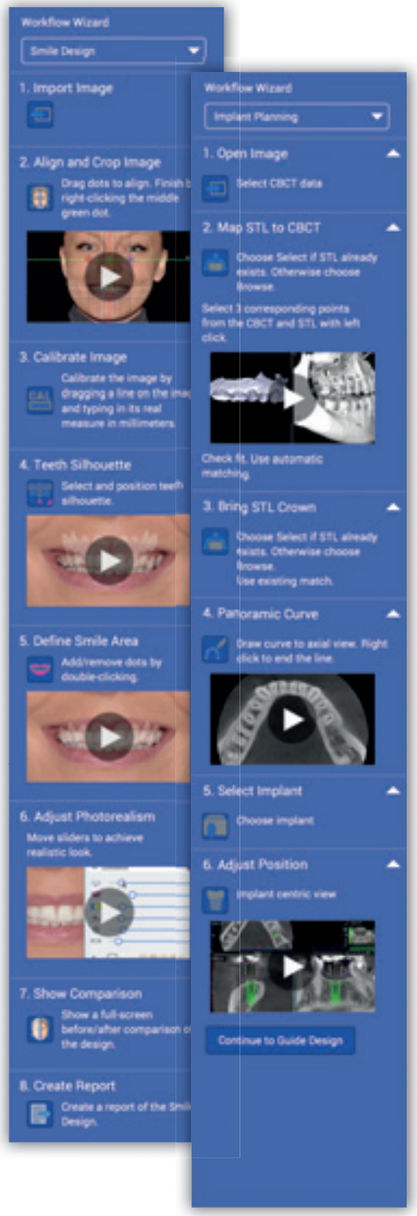
- 2D and 3D images
- Intraoral scans
- Clinical photos
- Dental lab order forms
- Virtual patient cases

Two options for database hosting

With Romexis, you have the flexibility to host your software database on a local on-site server or opt for our **Romexis® Image Cloud** hosting service, which offers a secure cloud environment for your database and enables remote access to patient images from any location. Romexis Image Cloud includes comprehensive backups, maintenance, and robust data security, allowing you to focus your resources on patient care.

Superior usability

***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.*



A'DESIGN AWARD WINNER 2020 GOLD

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 available at www.planmeca.com

Modular platform

***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:

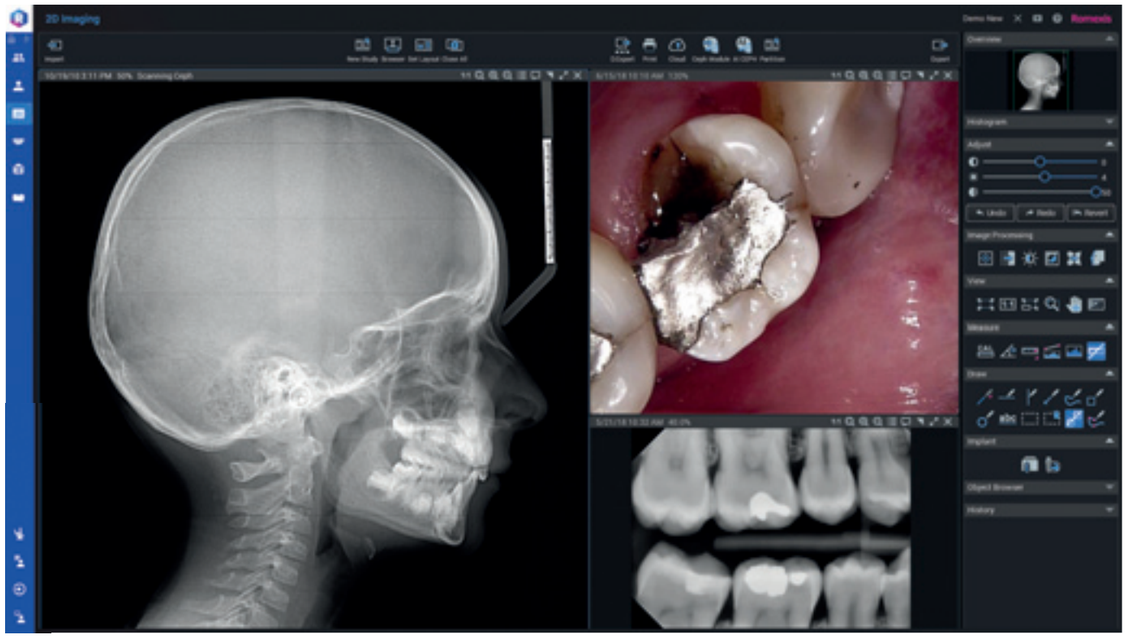
- All software modules in a single user interface and all data stored in one database
- Allows starting with any combination of modules and adding more users and modules later on, from 2D to 3D imaging and CAD/CAM with full implant planning functionalities
- Includes specialist modules for e.g. smile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

3D imaging
2D imaging
3D cephalometry
2D cephalometry
3D implantology
AI
CAD/CAM
Ortho simulation
CMF surgery
Smile design



2D imaging

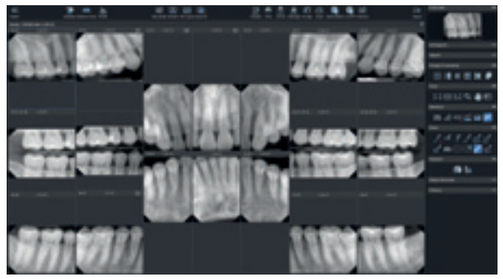
*The **Romexis®** software offers a rich selection of intuitive 2D imaging tools that ensure a streamlined and efficient workflow in all situations.*



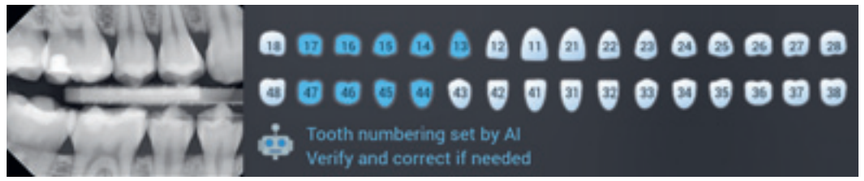
Key benefits

- 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
- AI-powered intraoral imaging workflow with automatic tooth numbering, rotation and organisation of intraoral images into study templates
- Powerful search, filtering, and reporting tools
- Digital radiology process for full accountability – including electronic acquisition requests, reject analyses, interpretations, and central radiological QA reporting
- Seamless integration with **Second Opinion®**, an AI-based image analysis service by Pearl Inc.



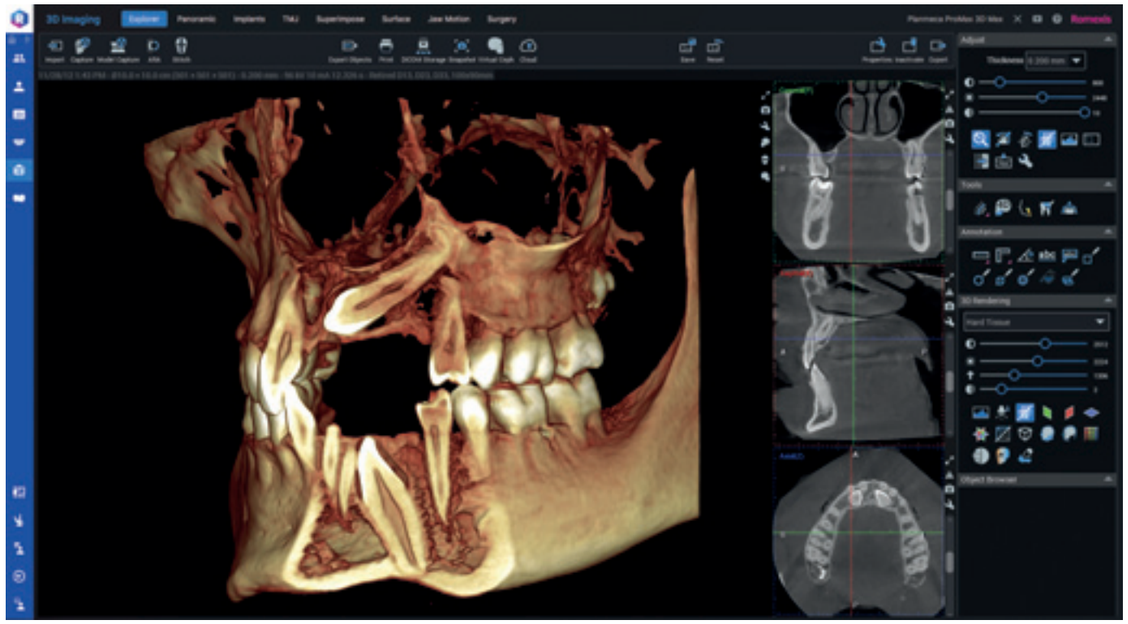






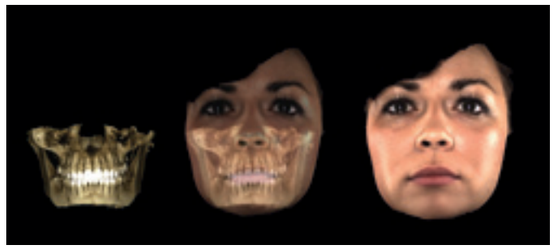
3D imaging

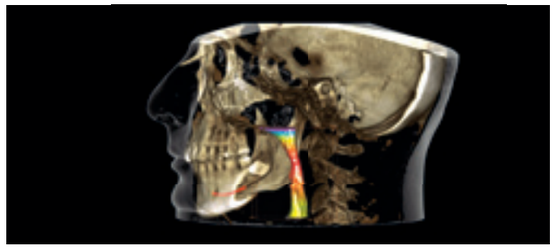
*The **Romexis**® software offers specially designed 3D imaging tools for implantologists, endodontists, prosthodontists, periodontists, orthodontists, maxillofacial surgeons, and radiologists.*



Key benefits

- Support for all types of 3D data – from CBCT images to 3D photos and surface models
- Versatile AI tools, including automatic segmentation of key anatomies, nerve detection, and fitting CBCT images with intraoral scans
- 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
- CBCT-generated cephalograms with free orientation
- Tool for measuring root canals

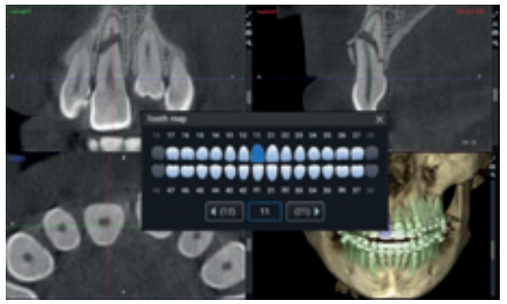






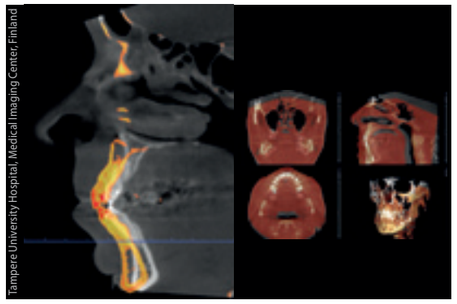
Automatic segmentations

Romexis automatically segments airways, jaws, teeth, sinuses and nerves. The segmented anatomies are ideal for patient education and can also be exported as STL for 3D printing, for example.



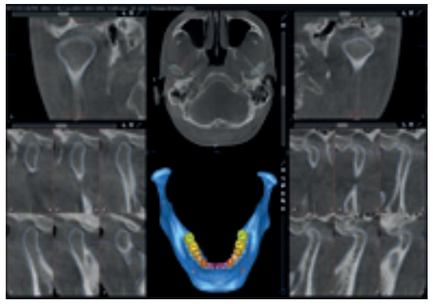
Intelligent navigation

Thanks to the automatic AI-powered tooth number recognition by Romexis, a CBCT volume can be easily navigated by just clicking on tooth numbers. Romexis automatically centres all views on the tooth of interest.



Superimpose CBCT

Romexis allows the superimposition of two CBCT images. It is a valuable tool for before-and-after comparisons and can be used for orthognathic surgery follow-ups, as well as orthodontic treatments, for example.



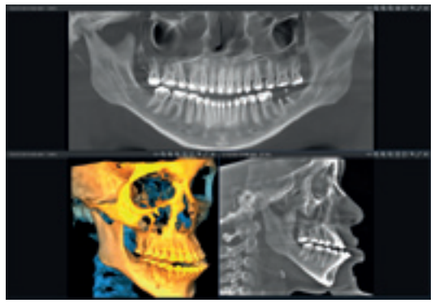
TMJ analysis

With Romexis, the patient's mandibular joints can be conveniently evaluated side by side. Using AI, the software automatically recognises the condyles and arranges the views for TMJ analysis. Slice orientation is automatically set perpendicular to the condyles, and the distance, thickness, and number of slices can be adjusted as needed.



View CBCT images in virtual reality

Planmeca Romexis® VR solution allows viewing patient data in true three dimensions, providing a deeper understanding of morphological and anatomical relationships for various indications. It also enables visualising implant planning in virtual reality with realistic implant models.

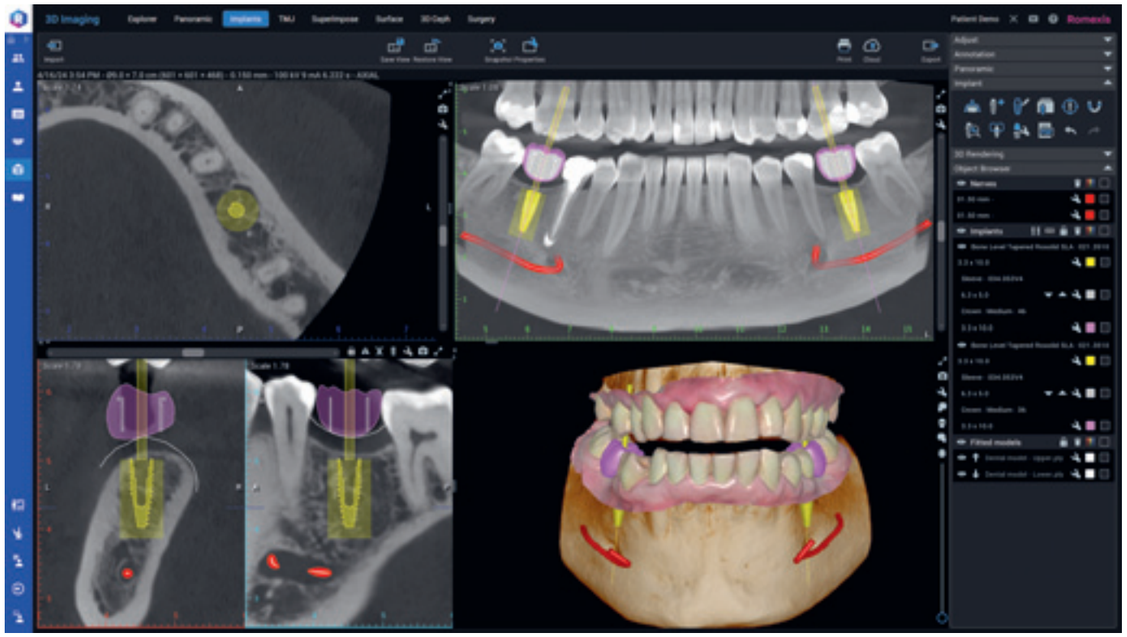


Virtual panoramic and cephalometric images

Planmeca Romexis provides all the tools for creating beautiful panoramic and cephalometric images with just one click. There is no need to capture traditional panoramic and cephalometric images separately, if a CBCT of the patient is available.

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. Thanks to AI, creating an implant plan takes only a few seconds.*



Key benefits

- Direct image acquisition with Planmeca CBCT units and intraoral scanners
- Automated AI-powered implant plan proposals
- AI-based tools for the automatic fitting of CBCT images and intraoral scans, nerve recognition as well as tooth navigation and segmentation
- Extensive implant and abutment library featuring choices from over 130 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
- Open software – supports DICOM and STL imports and exports free of charge
- Free export for guides in STL format





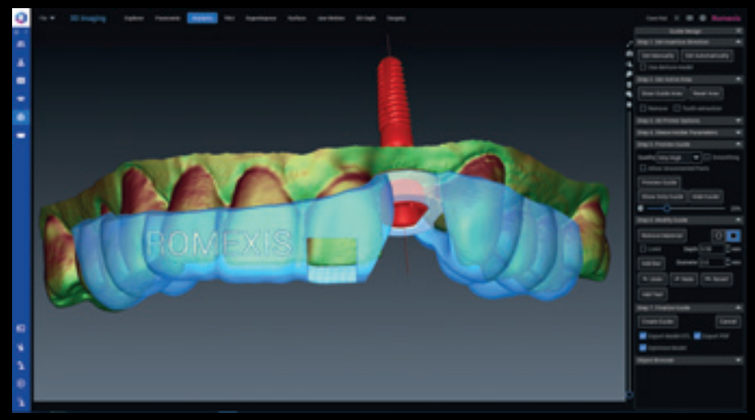
“I do a lot of extractions and immediate implantations in the anterior sector. With **Romexis®** guides, both precision and predictability are simply superior. You know exactly the result you are going to achieve. Thanks to the development of guided surgery techniques, cases that used to be complex have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

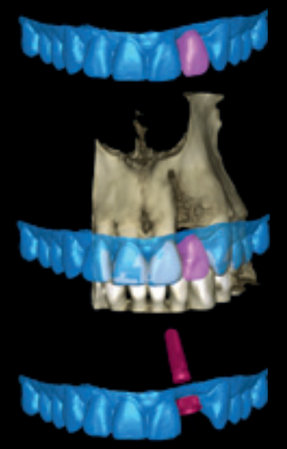
Dr Samuel Dumortier
Dental surgeon
Caen, France

Design surgical guides in a few minutes

Tooth-supported guide design

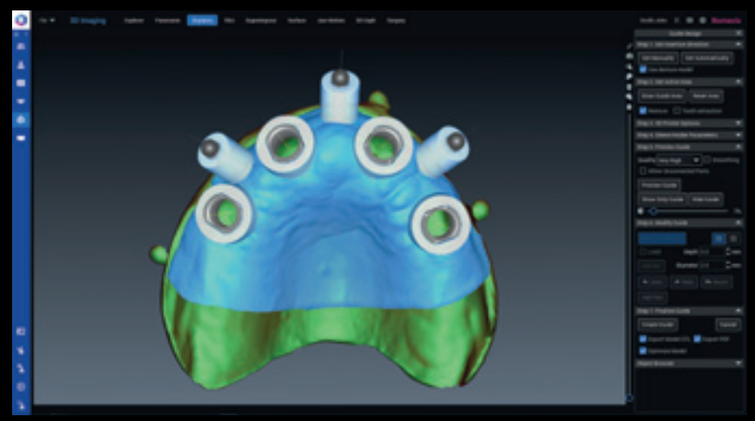
- Use *Smart Implant* tool to create an automatic implant plan and virtual wax-up.
- Superimpose a digital scan automatically onto a CBCT image with *Smart Fit* tool.
- Design a surgical guide with a few clicks.
- Verify the plan and export the guide design in STL format for 3D printing.





Mucosa-supported guide design

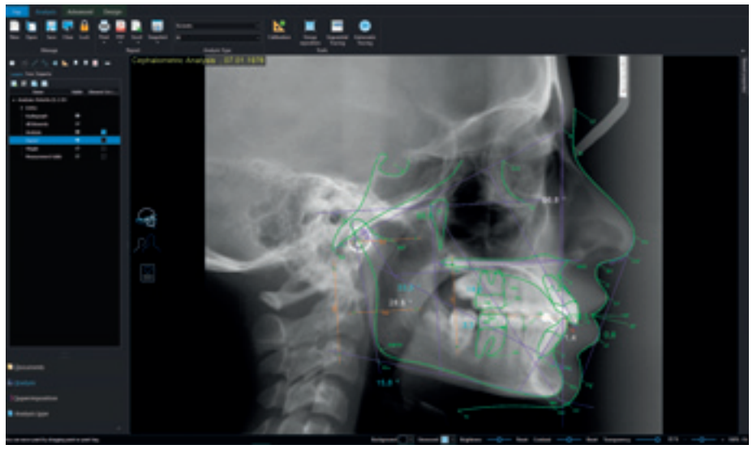
- Superimpose dentures with radiographic markers onto a CBCT image.
- Plan the implants and position fixation pins.
- Design a mucosa-supported guide with a few clicks.
- Export the guide design in STL format for 3D printing.





2D cephalometry

*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

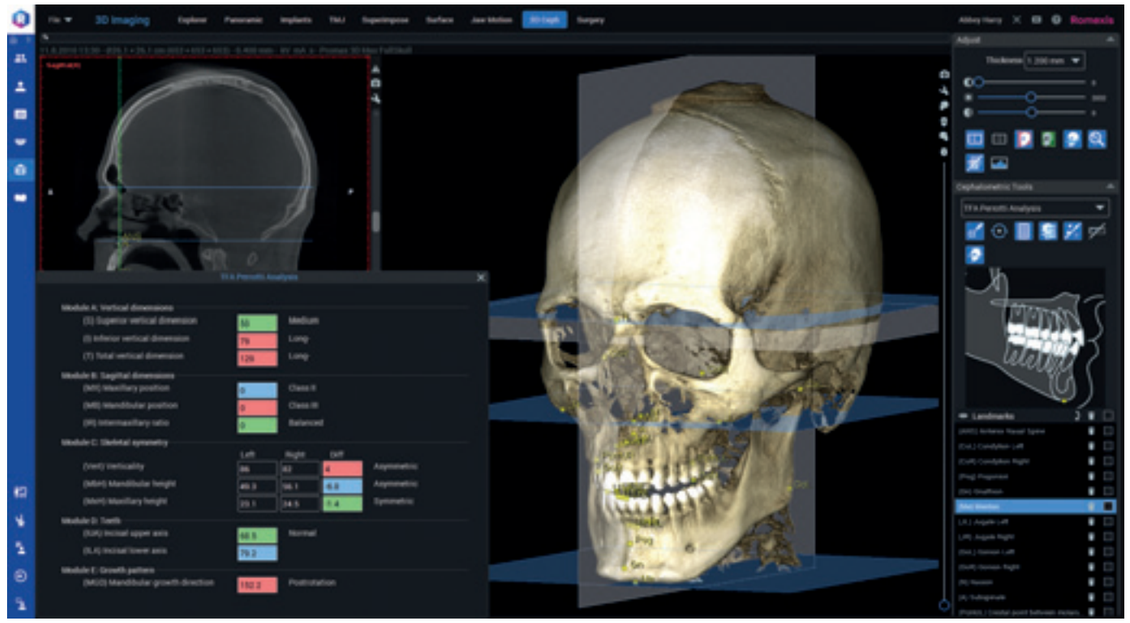
*Users can also order automatic cephalometric analyses as an online service directly from the **Romexis®** software. The analyses can be downloaded immediately when needed – regardless of time and place.*

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

*The **Romexis® 3D Cephalometry** module is the leading-edge tool for performing orthodontic analysis using CBCT images. Automatic AI-based landmark detection together with clear visual representation of analysis results makes the module perfect for anyone interested in 3D orthodontic analysis.*



Key benefits:

- Automatic landmark detection enables performing 3D analysis in seconds.
- Users can also place landmarks and correct their positions manually in an intuitive manner with the help of reference pictures and 3D views, which are automaticially adjusted.
- The software includes truly three-dimensional analyses, such as Total Face Approach (TFA) by Dr Giovanna Perrotti, Transversal Analysis and Orthognathic Surgery Analysis.
- The analysis results 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.



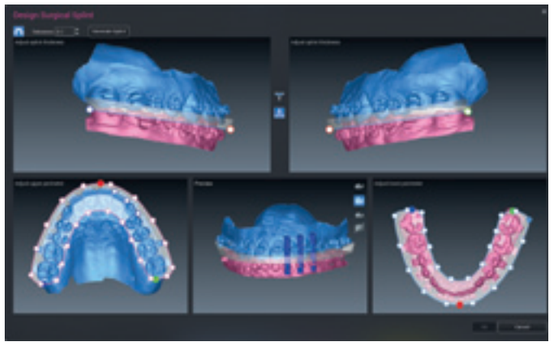
“The **Romexis® 3D Cephalometry** module helps orthodontic diagnosis by visualising the case in a clear and concise manner. Having a distinct graphical representation of the case allows for the intuitive and easy evaluation of the case. It is also an effective patient education tool.

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

CMF Surgery

*The **Romexis® CMF Surgery** module is an advanced tool for preparing individual virtual treatment plans for orthognathic surgeries. It provides means to evaluate cases, plan osteotomies, simulate jaw movements, and to create intermediate and final splints based on the target occlusion and final position of the jaws.*







Key benefits

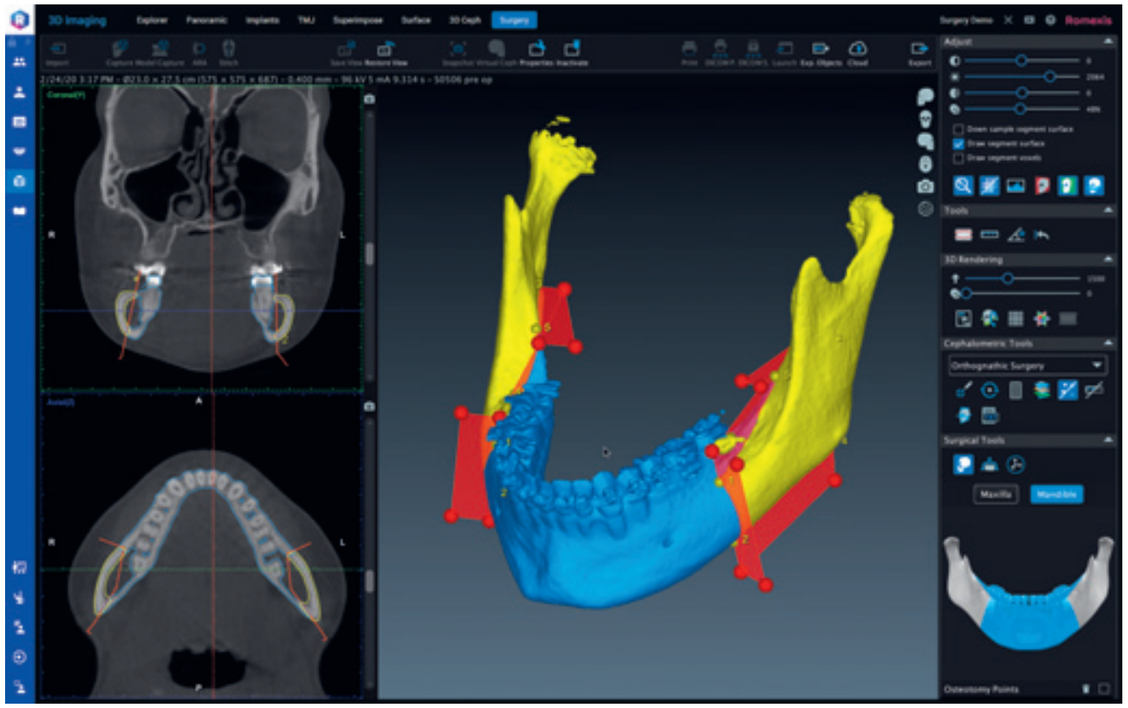
- Advanced tools for orthognathic surgery treatment planning in a single workflow.
- Workflow wizard provides instructions for each step of the process.
- AI-based tools for the automatic jaw segmentation, nerve detection, and fitting of CBCT images and intraoral scans.
- Allows creating a virtual patient by merging 3D data.
- 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.
- AI-powered landmark detection and orthognathic analysis.
- Dynamic superimposition comparing preoperative images and virtual plans.
- Soft tissue visualisation and simulation.
- Allows designing both intermediate and final splints and exporting them as STL files for 3D printing.



“Virtual surgical planning has improved the safety, accuracy and predictability of procedures, as it allows me to see the structures more clearly and plan the osteotomies more precisely than before. This reduces the operation time and the patient’s recovery time.

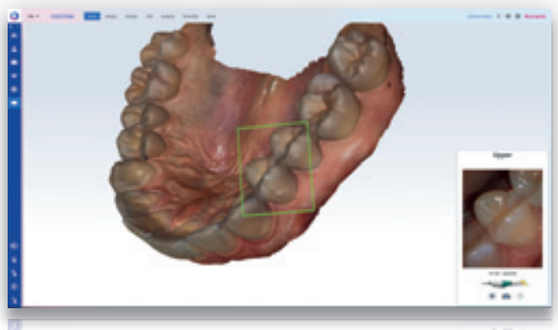
I wanted to have a complete solution for the entire spectrum of CMF surgery – jaw surgery, implants, TMJ diagnostics and complex bone augmentation planning. With Planmeca’s imaging and software solutions, I have achieved this.

Dr Sven Heinrich, MD, DMD
Specialist in Oral and Maxillofacial Surgery
Practice Dr. Heinrich
Berlin, Germany



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.*



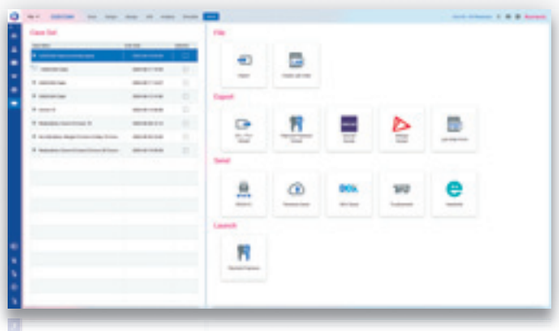
Fast and enjoyable scanning experience

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.



Powerful tools for analysing digital impressions

Romexis CAD/CAM module is the perfect tool for patient communication and education as well as for dental analyses. Romexis uses AI to detect landmarks in intraoral scans, enabling automatic tooth width, arch length, overbite, and overjet measurements. You can also easily compare scans captured at different times for tooth wear or treatment follow-ups and create dental models for 3D printing with just a few clicks.



Easy one-click exports

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

Restoration design

Intuitive and efficient CAD software is the key for offering same-day restorations. ***Planmeca Romexis® CAD/CAM*** *software module allows dental professionals to design and manufacture high-quality dental restorations directly at a dental practice. It is the perfect tool for the sophisticated 3D design of prosthetic works, such as single-unit crowns, inlays, onlays and veneers.*

Intuitive CAD software for prosthetic works

The **Romexis® CAD/CAM** software module is an efficient tool for completing all the steps of a restorative workflow from intraoral scanning to the design and manufacturing of single-unit crowns, inlays, onlays, and veneers. The software comes with numerous easy-to-use tools for the automated design of dental restorations with optimal contact strengths, anatomical shapes and minimum material thicknesses, which can also be manually adjusted.

User-friendly and care-free workflow

Unlocking the full potential of chairside dentistry is a breeze with Romexis CAD/CAM module. The intuitive user interface guides users through all required steps for the restoration design, ensuring even first-time users complete all necessary steps before the restoration is sent to mill.

Exceptional restorations based on patient anatomy or a tooth library

Romexis CAD/CAM module supports designing single-unit restorations on up to 32 teeth across both jaws in a single case. The module offers a variety of features for creating aesthetically pleasing restorations, which blend seamlessly with the patient's natural dentition. Thanks to the automatic segmentation of the teeth, you can easily clone an existing tooth of the patient for your design. Alternatively, you can use an anatomy from one of the integrated libraries of the software. Whatever you choose, a wide set of intuitive tools allows you to customise and adjust the design as you wish to achieve the desired aesthetic and functional outcome.

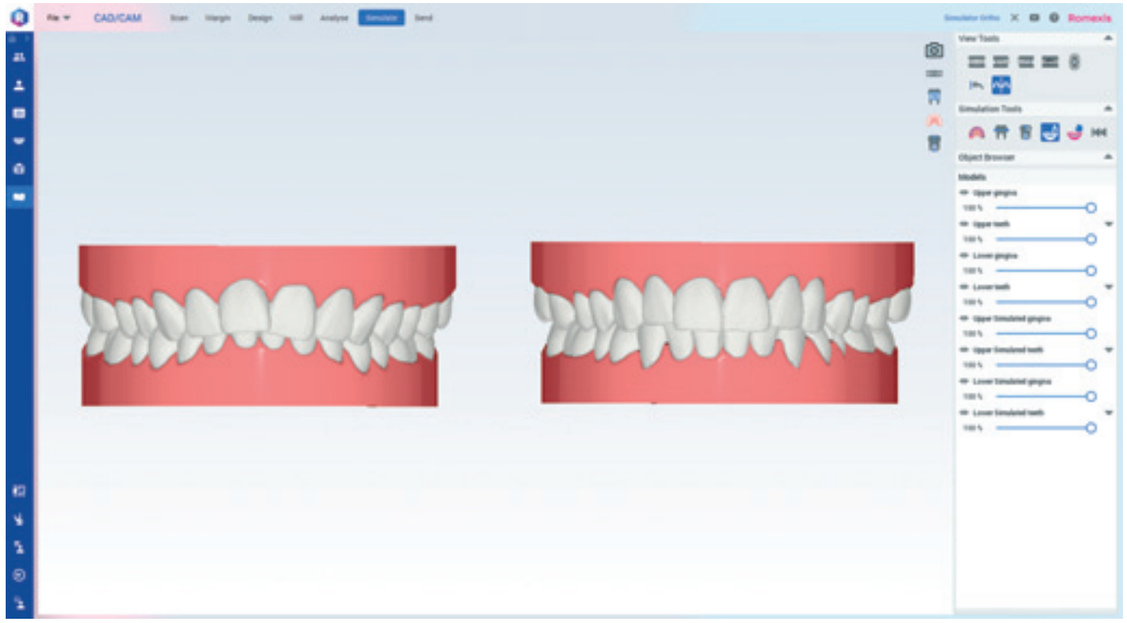
Seamless part of treatment workflows

Romexis CAD/CAM is part of our comprehensive **Planmeca Romexis®** software platform. There is no need to toggle between different software, as Romexis supports several types of data and all actions take place in the same platform. Implant planning, surgical guide design and other workflows are carried out smoothly and efficiently.



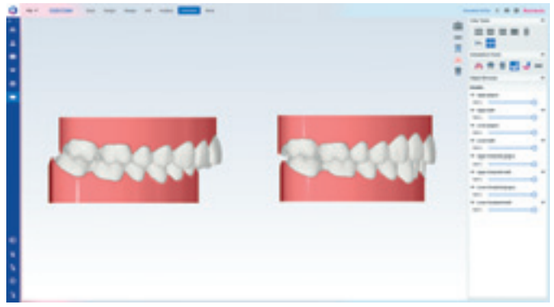
Orthodontic simulation

*With the **Romexis® Ortho Simulator** module's fast and easy simulation tools, the true potential of the patient's smile can be revealed in a matter of minutes after scanning with the **Planmeca Emerald® S** intraoral scanner. The entire process is intuitive for the doctor and compelling for the patient. Romexis Ortho Simulator is a perfect tool for promoting clear aligner treatments.*



Simulate treatment goals together with patients

The smart algorithm of **Romexis® Ortho Simulator** creates simulation proposals of even the most demanding orthodontic cases. The simulation results can be easily fine-tuned taking into consideration the patient's wishes and the clinical reality by the doctor. In simple cases, minor tooth movements can be simulated manually in a matter of seconds. The current dentition and simulation can be easily compared in a side-by-side view.



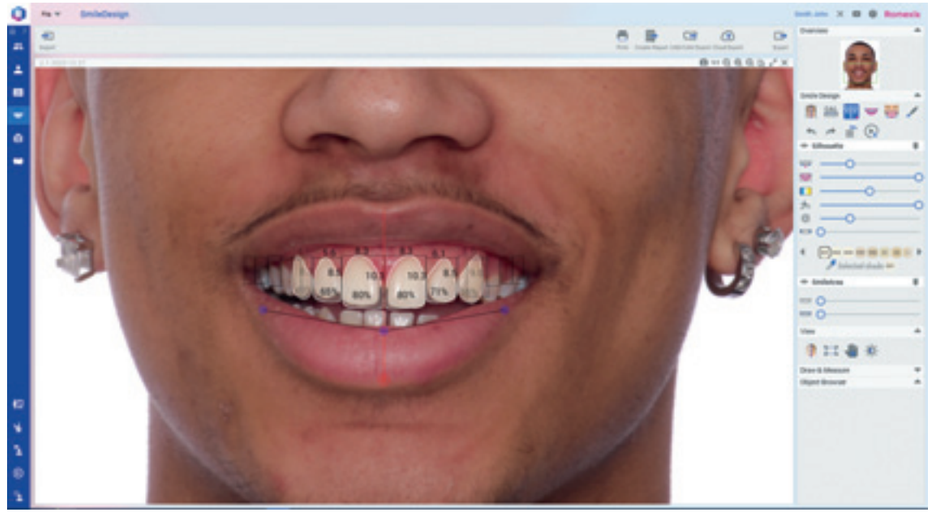
Show the potential of clear aligner treatments

Romexis Ortho Simulator makes it easy to discuss treatment possibilities and explain the aesthetics of the smile in a visual and understandable way. It is a perfect tool for an orthodontic professional to showcase the potential of clear aligner treatments, such as **HeySmile®** treatments.



Smile design

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



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

Tools for any type of case





"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

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

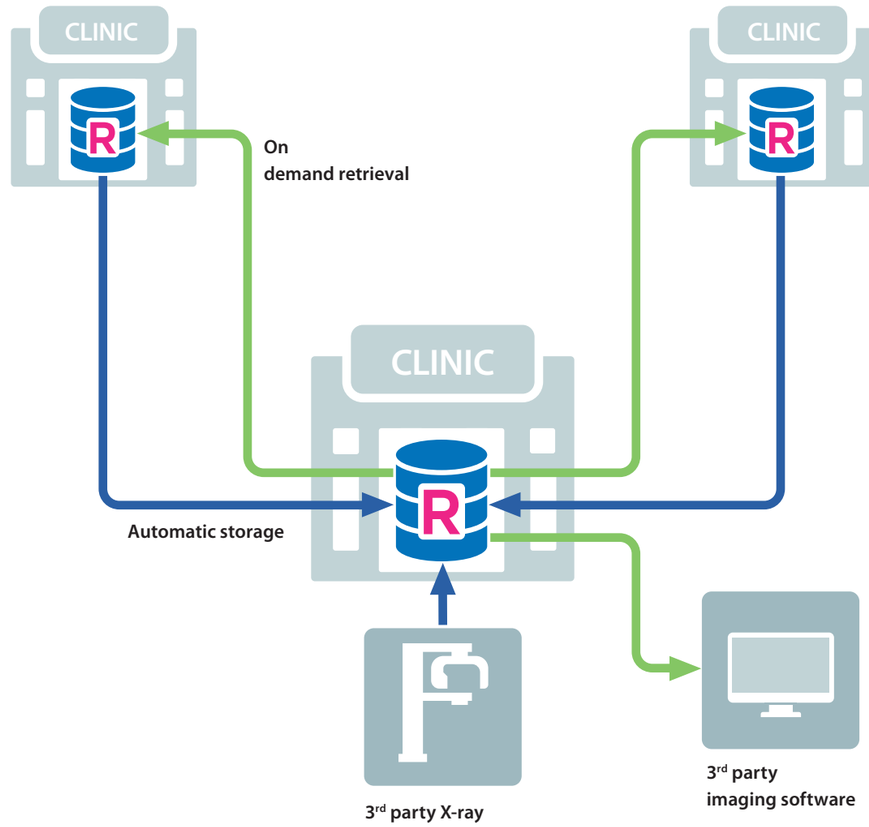
Enterprise integration

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

- 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 sending image and patient data to 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**.



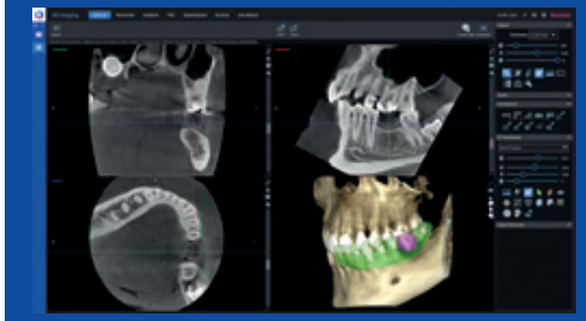
Planmeca mRomexis™

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.



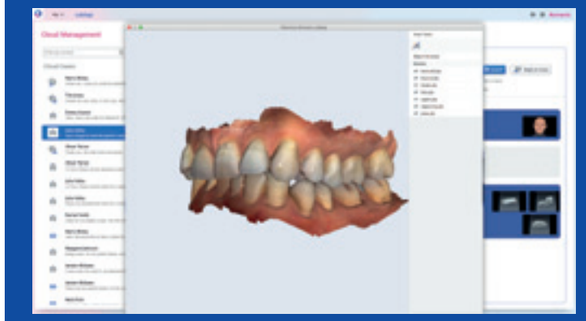
Planmeca Romexis® Viewer

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

Technical specifications

Compatibility

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

Supported 3D modalities
- 3D CBCTs
- 3D photos
- 3D models

Supported photo sources
- Intraoral camera
- Digital camera or scanner (import or TWAIN capture)

Operating systems (64 bit)
- Microsoft Windows
- Apple macOS*

For detailed information please see system requirements at planmeca.com.

*Cephalometric Analysis module and CAD/CAM software are supported on Windows operating systems only.

Image formats
- JPEG or TIFF (2D image)
- DICOM (2D and 3D image)
- TIFF, JPEG, PNG, BMP (2D image import/export)
- STL, PLY, OBJ (3D models import/export)
- 3Shape export (3D models)
- ExoCAD export (3D models)

DICOM 3.0 support
- DICOM Import/Export
- DICOM DIR Media Storage
- DICOM Print SCU
- DICOM Storage SCU/SCP
- DICOM Worklist SCU
- DICOM Query/Retrieve SCU/SCP
- DICOM Storage Commitment SCU
- DICOM MPPS

See Planmeca Romexis DICOM Conformance Statement at planmeca.com.

Interfaces and integrations
- TWAIN Client
- PMBridge (patient information and images)
- VDDS (patient information and images)
- InfoCarrier (patient information)
- Romexis Cloud image transfer service
- DDX Cloud
- Dolphin Imaging
- Second Opinion Service
- HeySmile
- SIMtoCARE
- CephX service
- TruAbutment cloud
- 3D Diagnostics service
- 360 imaging service
- Planmeca PlanCAD Premium
- Generic 3D launch
- Generic 2D launch
- Generic portal launch

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, orientation and annotation tools
- Support for image study templates
- AI-based automatic tooth numer detection for intraoral X-rays
- Automatic rotation of intraoral X-rays based on AI-detected tooth numbers
- Automatic placement of intraoral X-rays in the study template based on AI-detected tooth numbers
- Customisable prefilters for all image types
- Multi-page printing with customer branding
- Imports and exports: DICOM, JPEG, PNG, TIFF, 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
- Launch for external applications

Romexis Smile Design
- 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
- *Includes Romexis 2D Standard*

Romexis 2D Implant
- Implant libraries featuring +130 manufacturers
- Generic crown library
- *Includes Romexis 2D Standard*

Romexis Cephalometric Analysis**
- 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
- *Includes Romexis 2D Standard*

3D imaging

Romexis 3D Standard
- Image acquisition with Planmeca CBCT units
- MPR views (axial, sagittal, coronal)
- 3D rendering views
- Automatic panoramic views
- Cross-sectional views
- Automatic segmentation of teeth, maxilla, mandible, airways, and sinuses
- Automatic tooth number recognition
- Automatic nerve canal tracing
- Automatic CBCT and intraoral scan mapping
- Tooth number-based navigation
- Pseudopanoramic and cross-sectional views
- Image processing, annotation, and measurement tools
- Imports: DICOM, STL
- Exports: DICOM, STL, OBJ, PLY
- 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
- TMJ views
- Superimposing two CBCT volumes
- Creating 2D snapshots and 2D slice stacks
- Support for Planmeca 3D photos
- Mapping CBCT images with 3D or 2D photos
- Comparison of two 3D photos or surface scans
- Distance and angle measurements between two surfaces
- Shaping 3D photos
- Two surface measurements
- Launch for external applications
- *Includes Romexis 2D Standard*

Romexis 3D Implant
- Automated implant plan and virtual crown proposals
- Implant planning tools (alignment, implant extension, implant safety areas)
- Implant centric views
- Implant libraries featuring +130 manufacturers
- Abutment libraries and a generic abutment designer
- Generic crown library
- Implant verification tool
- Automatic implant reports
- *Includes Romexis 2D Standard*
- *Includes Romexis 2D Implant*
- *Includes Romexis 3D Standard*

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

Romexis CMF Surgery
- Workflow Wizard
- Automatic segmentation of teeth, maxilla, mandible, airways, and sinuses
- Automatic landmark detection
- Automatic CBCT and intraoral scan mapping
- 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
- Showing segmented teeth
- 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
- Export of postoperative models in open STL format
- Extensive surgery reports
- *Includes Romexis 2D Standard*
- *Includes Romexis 3D Standard*

Romexis 3D Cephalometry
- 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
- 3D photo visualisation
- Analysis types: TFA Perrotti analysis, Orthognathic Surgery analysis
- *Includes Romexis 2D Standard*
- *Includes Romexis 3D Standard*

Romexis VR
- Launch and view 3D patient data in virtual reality
- Examine patient anatomy in true three dimensions
- Plan implant treatments using extensive implant libraries
- Engage patients in immersive experience

CAD/CAM

Romexis CAD/CAM Scan**
- Scanning with Planmeca Emerald S intraoral scanner
  - Presets for most common workflows
  - Support for scanning different bites
  - Buccalless alignment for full arch cases
- Taking 2D snapshots with the scanner
- Model editing, orientation and viewing
  - Shade assistant
- Automatic AI-based analyses and measurements
  - Tooth width and arch lenght measurements
  - Bolton and space analyses
  - Overjet and overbite measurements
- Analysing dental models
  - Contact map and undercut calculations
  - Tooth width, arch length, and free measurements
  - Overjet and overbite measurements
  - Bolton and Space analyses
  - Comparison of scans
- Model base creation (solid and hollow)
- Marking the margin lines for multiple teeth
- Imports and exports: STL, PLY
- Export: PlanCAD Premium, 3Shape, exocad formats
- Send: Romexis Cloud, DDX Cloud, TruAbutment, HeySmile and SIMtoCARE
- Creating lab order forms (PDF)
- *Includes Romexis 2D Standard*

Romexis CAD/CAM Design**
- Designing inlays, onlays, veneers and crowns
  - Support for up to 32 single-unit restorations across both jaws in one session
  - Automated design based on an existing tooth or a template from an anatomic tooth library
- Creation of digital wax-ups for the restoration design
- Versatile tools to ensure outstanding aesthetics and precise fit
  - Viewing, transformation and modification tools
  - Tool for adjusting occlusal and interproximal contacts
  - Emergence profile adjustment tools
- Milling restorations with Planmeca chairside milling units
- Printing restorations with Planmeca Creo X dental 3D printer
- Import and export of restorations: STL, PLY
- *Includes Romexis 2D Standard*
- *Includes Romexis CAD/CAM Scan*

Romexis Ortho Simulator**
- Automatic one-click simulation of the teeth position after the aligner treatment
- Automatic orientation of the scans
- Automatic segmentation of crowns from the intraoral scan
- Tools for modifying the automatic segmentation and labelling
- Automatic detection of the tooth axis
- Tools for adjusting the tooth axis, both mesial-distal and long axis
- Manual movement and rotation of the tooth
- Possibility to reset the segmentation and the simulation
- Taking 2D snapshots
- *Includes Romexis 2D Standard*
- *Includes Romexis CAD/CAM Scan*

Romexis CAD/CAM Complete**
- *Includes Romexis 2D Standard*
- *Includes Romexis CAD/CAM Scan*
- *Includes Romexis CAD/CAM Design*
- *Includes Romexis Ortho Simulator*

Clinic efficiency

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

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

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

Romexis Image Cloud
- Secure hosting of Romexis server, database and images

Planmeca Oy
CE 0598 MD Planmeca Romexis · CE 0598 MD Planmeca ProOne · CE MD Planmeca Emerald S · CE 0598 MD Planmeca Compact i
CE 0598 MD Planmeca Viso G7 · CE 0598 MD Planmeca ProX · Planmeca Onyx pending CE mark approval · CE MD Planmeca Lumo
CE 0598 MD Planmeca Viso G5 · CE 0598 MD Planmeca ProSensor HD · CE Planmeca PlanMill 35 · CE Planmeca Creo X

imes-icore GmbH · PlanSmile SL
CE Planmeca PlanMill 60 S · MD HeySmile

**Support for the Windows operation system only



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

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PLANMECA

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