Planmeca university solutions
Planmeca’s unique teaching concept is the choice of 200 leading dental universities around the world. The success of this completely digital solution is based on our capability to network all digital dental equipment with one software platform. We are also the first company to integrate all 3D imaging and CAD/CAM modalities into one software. This brings unforeseen possibilities for education, research and clinic operation. Our solution introduces interactive teaching methods and an inspiring learning environment to support a digital curriculum. Our unique dental unit concept offers students a seamless and easy transition from pre-clinical simulation training to clinical training and actual patient treatment. Dentistry will be completely digital in the future, and so will dental education. The possibilities introduced by 3D technology will transform the field of dentistry and bring new dimensions to diagnostics.

An introduction from our President

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Heikki Kyöstilä
President and founder
Planmeca Group
Planmeca’s unique teaching concept
Create an inspiring modern learning environment

We are proud to offer the most comprehensive and integrated solutions available in the field of dental education – all brought together with the pioneering Planmeca Romexis all-in-one software platform.

Our unmatched teaching concept offers the most advanced tools for modern dental education: from simulation units and software to centralised infection control, dental care units, CAD/CAM solutions, and 2D and 3D imaging devices.

In addition to our own products and services, we have a long history of working together with an extensive network of companies that provide specialised and complementing solutions regarding e.g. water treatment, haptic simulations, and video streaming.

Your key benefits
• Seamless integration of hardware and software with Planmeca’s all-in-one concept supports an efficient workflow
• High-quality equipment with cutting-edge technology
• Future-proof concept with excellent upgradeability
• Features designed especially for educational use of university clinics
• A safe treatment and learning environment with centralised infection control and quality assurance
• Innovative solutions based on customer needs
• Commitment to long-term partnership
• Extensive experience from large clinic projects all over the world
• A comprehensive package no other competitor can offer

Our philosophy – creating the future together

“IT’s wonderful that we are investing in the students and can provide new innovations for training. The best part is that the students are in a simulated setting right from the start and can follow hygiene procedures and data records, for example.”

Folkhalsakliniken’s training clinic for adult dentistry, Institute of Odontology, University of Gothenburg, Sweden
Docent Åsa Leondardt, Chief Dentist, Head of training clinic
Teaching concept

The choice of over 200 leading universities

Planmeca's learning concept has an established track record of success. Our dental units, imaging devices and software solutions are already the choice of over 200 leading universities around the world. Our products combine to form a perfect all-in-one solution – helping our customers benefit from sophisticated technology, efficient workflows, and significant cost-savings.

When planning a new teaching environment or dental clinic, please don’t hesitate to contact us – our strong and proven expertise in creating long-lasting solutions makes us your ideal project partner.

“IT is of primary importance that students are exposed to the latest technology. Otherwise, there will be no development.”

University of Eastern Finland/Kuopio University Hospital
Jari Kellokoski, Professor in Oral and Maxillofacial Surgery
Preclinical solutions
A smooth transition from preclinical to clinical work

The Planmeca teaching concept has been designed to ensure that students adapt to the world of digital dentistry right from the start. Our approach is to create a modern learning environment that simulates real treatment situations and provides an effortless transition from preclinical to clinical work in an ergonomic way.

We offer different simulation solutions for all educational needs. All our solutions are suitable for teaching both two and four-handed dentistry and are instantly convertible from right to left-handed use.

Planmeca Compact™ i, bench simulation
- Learning the correct working ergonomics from day one
- Mastering the proper infection control routines from the beginning
- Modular design fits into any room layout
- Free working space when the simulation unit is not in use enables use for multiple purposes
- Allows conversion to technician’s work – this brings cost-savings as the same equipment can also be used by dental technicians

Planmeca Compact™ i, dental unit in clinical environment
- Simulation can be carried out with a phantom head or with a simulation head and torso
- Very easy transition from preclinical to clinical work
- Flexible utilisation of space – the same clinic can be used for simulation and for normal treatment

University of Aarhus

Digital dental units

Planmeca Compact™ i,
bench simulation

Planmeca Compact™ i,
dental unit in clinical environment

We offer different simulation solutions for all educational needs. All our solutions are suitable for teaching both two and four-handed dentistry and are instantly convertible from right to left-handed use.
Planmeca digital dental units

Planmeca dental units are known all around the world for their exceptional quality, timeless design and outstanding ergonomics. Our wide unit range includes customisable options for all university needs to support an ergonomic treatment workflow.

Optimal working ergonomics from day one
- The lean and narrow backrest, side-lifting chair and small cuspidor leave the floor free for stools – allowing the dentist and assistant to get close to the patient
- Instrument console can be moved near the patient with no need to lock it
- Instruments are light to activate
- All Planmeca dental units are suitable for right and left-handed users and allow teaching two and four-handed dentistry

Intuitive user interface
- Simple to use - clear symbols and texts advise user
- Available in several languages
- Staff can concentrate on teaching clinical work, students can concentrate on learning
- Visiting teachers can also easily start working with the units

Everything you need for a university environment
- Suitable for heavy use at universities
- Future-dentists learn the most modern technology
- Studying and clinical work is fun and motivating
- Timeless design that lasts the whole lifetime of the unit
- Vivacious upholstery colour options for elegant and colourful rooms
- Small space requirements save in building costs
- Plug-and-play instruments allow shared instrument use and reduced instrument costs

Different solutions for different needs

Planmeca Compact™ i Touch
- Adapts to different user needs, instant left/right conversion
- Compact design guarantees perfect access and correct ergonomic postures
- Easy-to-use touch screen interface with multilingual user guidance

Planmeca Sovereign® Classic
- Six instruments – including instruments for specialist needs, such as an implant motor
- More space on the assistant side with rotating chair
- Instant left/right conversion with rotating unit and chair

Planmeca Romexis® Clinic Management module
- Innovative networking and monitoring solution for all Planmeca digital dental units and simulation systems
- Remote monitoring of networked equipment for real-time user assistance
- Recorded dental unit activities can be used for student evaluation and research purposes
- Unlimited number of personal user settings instantly accessible from any dental unit at the clinic

“Patients treated with Planmeca units tend to move less since they feel much more comfortable than in other units. Our patients specifically request for treatments to be carried out on Planmeca units. Planmeca’s dental unit design is very different and modern looking. Patients easily identify them as higher-end units due to their nice ergonomic design.”
International Islamic University Malaysia Lecturer and Clinical Coordinator, Dr Hikmah Mohd Nor

“Planmeca Compact™ i dental units are very robust and built from aluminium. I can highly recommend them for a university environment, where users are inexperienced students. Our units have been used by three batches of students, and the units themselves have proven to be very consistent.”
International Islamic University Malaysia Lecturer, Maj(R) Assoc Prof Dr Akbar S Hussin

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International Islamic University Malaysia Lecturer and Clinical Coordinator, Dr Hikmah Mohd Nor
Impeccable infection control
A safe treatment and learning environment

Clean water and infection control that meets the highest of standards have always been essential elements in Planmeca’s dental unit design. Innovative product development and cooperation with leading dental universities have produced comprehensive, thoroughly studied solutions for both external and internal dental unit infection control.

Our dental units offer
- Smooth surfaces and durable materials for excellent external infection control
- Integrated infection control for treatment water and suction system: no need for extra accessories, guidance from the user interface
- Infection control routines that are easy to follow
  - Safe working conditions for students and clinical staff, safe treatments for patients
  - Students learn the correct infection control routines from the beginning

Centralised infection control brings efficiency for large clinics
- Saves time and workload significantly
- A centralised cleantech water treatment system can be implemented to provide high-quality water for all dental units with minimum effort
- The advanced water system is chemical-free and generates significant cost, labor and energy savings
- Dental units can be configured to perform flushing cycles automatically, even during the night. No risk of forgetting to perform the cycles and a great time-saver!
- Centralised suction tube cleaning system – cleaning suction tubes and filters couldn’t be easier
- Safe to use. The cleaning agent is fed and measured automatically from a central container – no need to handle the chemicals manually, no risk of wrong dosage
- Saves room as there is no need to store chemicals in the clinic

Quality assurance with the Planmeca Romexis®
Clinic Management software: all flushing and cleaning cycles are recorded and can be tracked

“Planmeca dental units are significantly easier to service with their clear error reporting system shown on the screen. The issues encountered with them have been very minimal. The epoxy powder finishing and smooth surface facilitate efficient infection control, and the infection control steps are so straightforward that students have no excuse for not to follow them. The unit’s construction is very durable and the upholstery is very comfortable for both students and patients.”

International Islamic University Malaysia
Chief Dental Technologist, MD Arshad

Centralised infection control brings efficiency for large clinics

Digital dental units
Instruments and materials

Smart tracking system

Know the exact location of all instruments and materials

The LM Dental Tracking System™ (DTS) is the first commercially available system in the dental industry to efficiently track and monitor instruments and materials using RFID technology. It improves patient safety and material handling, as well as increases cost efficiency. The intelligent system opens up new possibilities within maintenance and clinical use for dental universities.

**Identification tags**
The LM-ErgoSense hand instrument and other dental materials with identification tags can be scanned with DTS readers for reliable tracking through their entire life cycle – from storage and maintenance to clinical and patient care.

**DTS readers**
DTS readers (either multi-read or single-read) can be placed in any environment. They notify users of errors, such as the use of unsterilised instruments.

**DTS server software**
The DTS server is used to record, track, and verify the cycles of activities done to tagged materials.

**Analysis**
The software provides easy analytical reports about the items and activity cycles registered in the system.

**Action**
The information in the reports can improve and ease asset management and documentation, and most importantly increase cost efficiency and patient safety.

**Key advantages of the LM Dental Tracking System™**

**Patient safety**
- Guarantee the safety of materials
- Ensure sterilised instruments
- Benefit from material traceability

**Cost reduction**
- Avoid time consuming manual controls
- Optimise stock
- Improve material flow
- Reduce number of lost items

**Asset management**
- Ease consumption recording
- Find out indications of demand
- Improve time management

**Documentation & education support**
- Reduce risks
- Decrease losses
- Improve clinical trainings
- Enhance patient session planning

“...All of our instruments have been tagged, which means we can keep track of them at all times – from their dispensation to utilisation, processing, sterilisation, and return to storage.
The LM Dental Tracking System ensures that we always have full control over the hygiene status of our instruments. We can also precisely document which of them students have been using and on which patients, as well as when they have been sterilised. We can define which instruments different students are allowed to use. We can even follow when and for how long students work on different patients.

Through analysing statistics on their flow, we can implement a standard procedure for periodic control of instruments, e.g. sharpening of scalers.

Overall, tracking instruments serves many purposes and can contribute to better and cheaper operations at a dental office – especially in larger settings.”

Bo Danielsen (D.D.S., MBA)
Head of the School of Oral Health Care
University of Copenhagen, Denmark

Turn information into action!
A revolution in dentistry

Planmeca’s open CAD/CAM solutions for modern learning

New digital technologies have revolutionised traditional dentistry and clinical work. This is why we have developed complete and easy-to-use CAD/CAM solutions for both dentists and dental labs – providing also a powerful educational tool for future dentists.

**Planmeca FIT™**

Our Planmeca FIT™ solution offers dentists a completely integrated and digital workflow with three simple steps – ultra-fast intraoral scanning, sophisticated design and high-precision chairside milling. All this is seamlessly integrated into the Planmeca Romexis® software, enabling all 2D and 3D patient data to be accessed through the same user interface. For the first time ever, one software suite is used for both X-ray imaging and CAD/CAM work.

**Planmeca CAD/CAM™ Lab**

The Planmeca CAD/CAM™ Lab solution for dental laboratories includes a fast and maintenance-free desktop lab scanner, a sophisticated design software suite and an accurate 5-axis milling unit. Dental laboratories can also order fast and reliable milling services from Planmeca’s modern PlanEasyMill™ milling centre and benefit from a wide range of materials and fast deliveries.
Planmeca’s open CAD/CAM solutions for modern learning

**A new era in dental education**

**CAD/CAM technology is transforming traditional dental education and bringing completely new possibilities to both teaching and learning. Discover our unique digital solutions that will help you take your university’s dental education to the next level.**

Planmeca’s CAD/CAM solutions are seamlessly integrated into our Planmeca Romexis® software, meaning that all necessary clinical information is always available in one place. Our unique 3D virtual patient concept can be combined with CAD/CAM data, creating a perfect educational and clinical tool for prosthodontics. All information can also be accessed from mobile devices, so students can practice their new skills wherever they are.

**Planmeca Romexis® Compare evaluation tool**

Planmeca Romexis® Compare is a powerful self-assessment tool that enables students to evaluate and measure their work individually against a master template. From learning dental morphology through virtual digital waxing to comparing their work with their school’s chosen ‘ideal’, students get detailed objective feedback so they can focus on perfecting their clinical skills.

**Compare features:**
- Auto-alignment of master and student models
- Color-coded 3D difference mapping
- Quantitative real time data analysis tools
- Extensive individual student and entire class reporting functionality

**Benefits of adaptive learning:**
- Faster and higher quality student progression
- Adapts to different abilities
- Improves understanding
- Engages students
- Allows students to work at an individual pace
- Frees up time for one-on-one instruction

**Scan**
- Open-architecture plug and play scanner/laptop based system for portability and flexibility in a dental school environment
- Hi-definition, video-like scanning technology for fast, efficient, and high-quality scanning

**Compare**
- Designed to assist in evaluating students’ work
- Immediate and objective feedback to faculty and students
- Provides students with self-assessment evaluation tool
- Resolves faculty evaluation discrepancies
- Reduces time wasted in discussions of grade legitimacy, providing faculty with more time to focus on instructing students

**Calculate numerical evaluations based on faculty-controlled standards to provide truly objective outcomes**

**Gather data and metrics for each student’s preparation – save in a spreadsheet format**
Planmeca offers the most advanced and versatile 2D and 3D imaging devices and software to meet all your university’s extraoral and intraoral imaging needs.

Our X-ray units are easy to use, with a clear touch screen guiding users through the entire imaging process. Students learn correct patient positioning and exposure techniques using state-of-the-art devices, while our advanced radiology approval process guarantees radiation safety.

“Our students represent a link, a conduit to the future, due to the school’s innovations in teaching digital dentistry. It is essential that dental students learn new treatment modalities to stay current, and that they continually keep abreast of the latest innovations and knowledge.”

University of Maryland Dental School, Baltimore
Gary D. Hack, DDS, Director of Clinical Simulation

Intraoral simulation
Our intraoral X-ray unit can be installed in a special lead-lined cabinet. Students can easily and safely practise intraoral techniques using a phantom head together with our intraoral sensors or imaging plates.

Planmeca’s radiology approval process
Planmeca’s digital imaging solutions offer new teaching possibilities in radiology, as well as improved radiation hygiene. The Planmeca Romexis® radiology approval process prevents unauthorised use of all radiation-emitting devices and guarantees a safe learning process.

Mac and Windows compatible
Planmeca’s 3D world – initiate your students into the future of dental imaging

Planmeca has been the first to introduce breakthrough 3D imaging methods that transform traditional imaging practices and offer a fascinating way to initiate students into the future of imaging.

One software for all needs
At the heart of all Planmeca products is our world-leading Planmeca Romexis® software that meets all the imaging and dental unit management requirements set by any dental facility.

Virtual 3D patient
Our unique 3x3D concept brings together a CBCT image, a 3D face photo and a 3D model scan into one 3D image – all using one X-ray unit and software. This creates a virtual patient in 3D, opening up completely new dimensions in maxillofacial diagnostics and dental education.

Pioneering low dose imaging
Our X-ray units enable 3D imaging with an even lower patient dose than standard 2D panoramic imaging and thus offer a great amount of detailed diagnostic information at a very low patient dose.
One software for all needs
Planmeca Romexis® – the brains behind it all

Planmeca Romexis® is the most powerful dental software on the market. Its extensive specialist tools, real-time monitoring possibilities, and unique connectivity with Planmeca equipment help make daily work more efficient and enjoyable for all users – from small clinics to large universities and hospitals.

Planmeca Romexis® key advantages in teaching

- Integration with practice management systems
- Integration with major educational systems like Axium and Salud
- Automatic exchange of referrals, images and interpretations
- Integration with various specialty software: Dolphin 3D, Simplant, NobelClinician
- Combine 2D, CBCT, 3D photo and CAD/CAM to create lifelike virtual patients
- Train realistic treatment workflows with intraoral simulation unit in classroom
- Planmeca mRomexis™ imaging application for iOS and Android devices

Planmeca’s radiology approval process

Our Planmeca Romexis® software offers a unique radiology approval process essential to modern-day dental education.

- Guarantees a safe learning environment for students by controlling their access to X-ray devices.
- Radiation is disabled until the teacher accepts the student’s X-ray acquisition request.
- After the request has been accepted, the X-ray unit is enabled for image acquisition.
- The student then evaluates the quality of the captured images, and the teacher approves the evaluation.
- The student performs a radiological interpretation using intuitive menus in Planmeca Romexis.

Intelligent image search for the teaching faculty

Planmeca Romexis® offers an intelligent option for teaching environments: teachers can search for images acquired by specific students or with specific Planmeca X-ray devices. This offers an easy way to evaluate student performance. Teachers can also grant user permission to each student separately.
Benefits for large university clinics

- Accurate information on Planmeca equipment with remote monitoring
- Planning of operations and preventive maintenance that is based on actual usage
- Significant cost-savings with more flexible use of dental units
- Enhanced quality assurance, student evaluation, and scientific research by tracking user activities

Benefits for students and faculty staff

- Personalised chair positions and instrument presets can be instantly accessed on any dental unit at the clinic
- Improved and more efficient user-assistance – also remotely

Benefits for unit maintenance

- Clinic status can be easily monitored with all networked units visible in one easy-to-read graphical overview
- Easy and fast troubleshooting – use history and real-time information of the unit are always available
- Maximised uptime due to effective proactive maintenance tools
- Significant time and cost-savings with remote software updates
Planmeca project partnership

Dedication and long-term commitment

We know that building a new teaching environment or dental facility is an extensive process. That is why we offer you a complete solution for every stage of the project, covering all key areas.

Project partnership

“...We had a vision. We were looking for innovative methods to provide the highest quality education and research – to provide the best dental health care for the citizens of the Kingdom of Saudi Arabia. We chose the company that demonstrated commitment to the university’s vision of excellence in dental education and that we believe is best positioned to serve the interests of the university, its faculty, and most importantly, its students – the dentists of the future in Saudi Arabia.”

King Saud University College of Dentistry, Saudi Arabia
Dean, Professor Khalid Ali Al Wazzan

We offer

1 | Best dental equipment for pre-clinical and clinical use

- Leading digital dental equipment for all needs
  - All equipment easily networked for centralised remote management
  - Easy upgrades for future options
  - Seamless transition from pre-clinical to clinical use
  - Customisable unit and instrument settings

2 | Leading systems and software for digital imaging

- World-leading solutions for all 2D and 3D imaging needs
  - One software platform for all devices
  - Radiation control for patient and staff safety
  - Integrated imaging approval process for safe learning

3 | Centralised supervision of clinics

- Unique software concept for optimal clinic operation
  - Remote, real-time user assistance and clinic monitoring
  - Preventive maintenance
  - Significant time and cost-savings

4 | Leading partners in electronic patient records and teaching aids

- Versatile IP-based teaching aids
  - Reliable and renowned commercial partners
  - Interactive and motivating learning solutions
  - Complete tools for classroom management and telemedicine

Project steps

1. Discussions about the needs of the university
2. Clinic utilities – piping, cabling, water, air/suction, electricity
   - A centralised system for cost-efficiency
   - A clean and noise-free clinic
   - Improved safety and reliability
3. Infection control – waterlines, suction tubes, external surfaces
   - Scientifically proven solutions for optimal safety
   - Guaranteed quality-assurance and audit trail
   - An optional centralised chemical-free water system
   - Considerable time and cost-savings
4. Optimal and ergonomic clinic layout planning
   - Functional clinic planning to support an ergonomic daily workflow
   - Optimised floor space and minimised cross-contamination
   - Custom-made cabinetry solutions
5. Installation of the products
   - Turn-key installation with local parties and trusted partners
6. Technical and user training
   - Specific training for local technicians
   - User training for the university faculty and students
7. After sales services
   - Technical support
   - Warranty services
   - Spare parts
8. Future cooperation, continuous system updates
   - Research cooperation
   - Digital Academy partnership concept

Infection control – waterlines, suction tubes, external surfaces

- Scientifically proven solutions for optimal safety
- Guaranteed quality-assurance and audit trail
- An optional centralised chemical-free water system
- Considerable time and cost-savings
Functional clinic planning

Functional clinic planning that supports the daily workflow of equipment users is Planmeca’s specialty. Our clinic layout plans always keep in mind the complete treatment process to ensure superb efficiency and ergonomics at all phases.

Carefully planned cabinetry, efficient organisation of supplies, easy instrument management, practical waste organisation and a safe sterilisation process are all equally important factors – and we take them all into account. We also make sure that the environment adapts to different user and educational requirements.

Optimal clinic layout planning – excellent ergonomics for all clinic users

- Functional clinic planning for the most efficient and ergonomic daily workflow
- Optimised floor space and minimised cross-contamination
- Custom-made cabinetry solutions
- An ideal and efficient material flow

“At our university, each treatment station is the most optimal size. It would not be possible to fit into a space with a smaller floor area. However, there is enough room to manoeuvre. For example, positioning the dental unit for right- or left-handed use just takes a couple of minutes. There is also enough space to carry out maintenance procedures well. When you consider how much one square meter costs in rent over 10 years, you are already talking about quite a large sum of money.”

University of Eastern Finland/ Kuopio University Hospital
Jari Kellokoski, Professor in Oral and Maxillofacial Surgery
The Nordic Institute of Dental Education (NIDE) is a joint venture of Planmeca and the University of Turku. NIDE offers high-quality continuing education courses on digital dentistry in Finland, aimed at dental professionals from all around the world. All its courses are accredited by the University of Turku and NIDE is also recognised by the American Dental Association’s ADACERP program. Learn more at www.nordicdented.com

Expanding your expertise

The Planmeca Digital Academy Partnership Model combines the academic expertise of universities with Planmeca’s cutting-edge technologies and expert knowledge. This cooperation model will allow universities to take their dental training business to the next level with the help of a trusted partner.

Find out more
Planmeca Group
Better care through innovation

Planmeca Group is one of the world leaders in health care technology. We are dedicated to better patient care through pioneering health care solutions that improve the daily workflow of dental and medical professionals around the world.

We manufacture and supply dental equipment, CAD/CAM solutions, medical and dental 2D and 3D imaging devices and software, mammography systems, instruments, and dental supplies and services.

Founded in 1971, our parent company Planmeca Oy is the largest privately owned dental manufacturing company in the world. Our headquarters and production facilities are located in Helsinki, Finland.

Always one step ahead
Our strong commitment to R&D and close collaboration with health care professionals and leading universities are behind the success of our innovations. Unrivalled scientific knowledge and an in-depth understanding of clinical workflows are vital parts of our product development.

Quality made in Finland
Our dental care units, X-rays and software solutions are designed and manufactured in Helsinki, Finland. Using the latest technology and the best materials, our products are hand-made and tailored to each customer’s specifications.

Design matters
Our aim is to create functional, durable and beautifully designed products that stand the test of time. We do this by always keeping our four design principles in mind: ergonomic workflow for professionals, patient and staff safety, patient comfort and long lasting aesthetics.

Planmeca is committed to improving the health and wellbeing of people around the world. This is how we make a difference:

Always one step ahead
Our strong commitment to R&D and close collaboration with health care professionals and leading universities are behind the success of our innovations. Unrivalled scientific knowledge and an in-depth understanding of clinical workflows are vital parts of our product development.

At the forefront of digital imaging
In the era of digital imaging, our imaging software and digital solutions have been leading the way. Superior image quality, low patient dose and ease-of-use are the most important guidelines of our product development.

Uncompromising infection control
Infection control and clean water have always been essential to the design and development of our dental care units. Hygiene features are demonstrated in our products through material selection, design and technical details.

550 distributors in 120 countries
98% of products exported around the world
2,700 employees worldwide
One software for all.

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.