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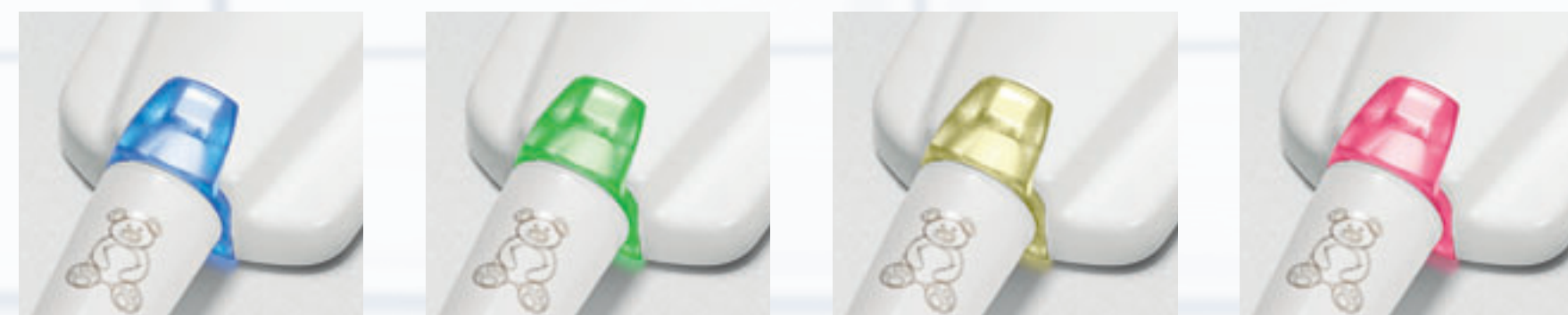
PLANMECA
ProSensor



Cutting-edge image quality



The innovative Planmeca ProSensor intraoral sensor sets new standards for imaging in dental practice. Planmeca ProSensor is a unique combination of high-end patient-centred design, usability, and durability, ensuring smooth workflow and patient safety in all treatment situations. Intelligently designed sensor housing, revolutionary magnetic connector, robust and durable cable, LED light on the interface box indicating the state of the sensor system, together with the cutting-edge technology guarantee success with every image.



When it comes to usability, Planmeca ProSensor makes no compromises. All three sensor sizes (S0, S1 and S2) are identified with a clear symbol on the magnetic connector, assisting the ease of use. The rounded edges of the sensor significantly improve patient comfort.

The sensors are connected to a single, elegant interface box with a magnetic connector – a new application in dental market. The magnetic connector allows easy connection and convenient one-hand operation

ensuring the sensor is always correctly inserted. Moreover, it enhances not only usability but also safety; in case the X-ray source or patient moves drastically, the connection is instantly interrupted to eliminate the risk of hurting the patient.

The interface box features LED light of which different colours indicate the state of the sensor system guiding the user and ensuring successful image acquisition and better image quality.

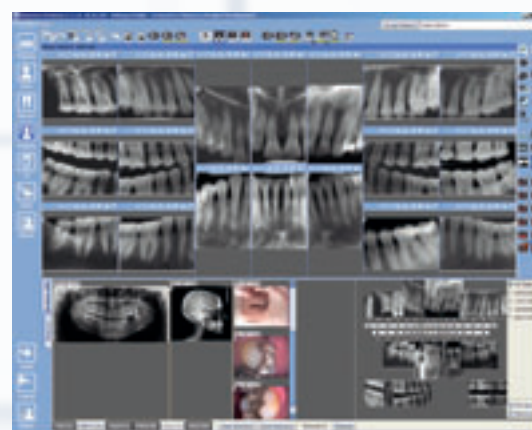


Planmeca ProSensor was designed, first and foremost, with durability in mind. The sensor cable is a result of careful design, technology and testing. The cable is strengthened with Kevlar, and inside the cable there is only two wires. This construction has proved extremely durable in meticulous test consisting of bending the cable more than 100 000 times.

The intelligent housing design with rounded edges and extensive active imaging area maximises both patient comfort and imaging performance. Hermetically sealed, the sensor can be fully immersed in disinfectant for effective infection control and prevention.

As Planmeca ProSensor is part of the acknowledged Planmeca imaging product range, it can be fully integrated with the Planmeca Intra intraoral X-ray unit.

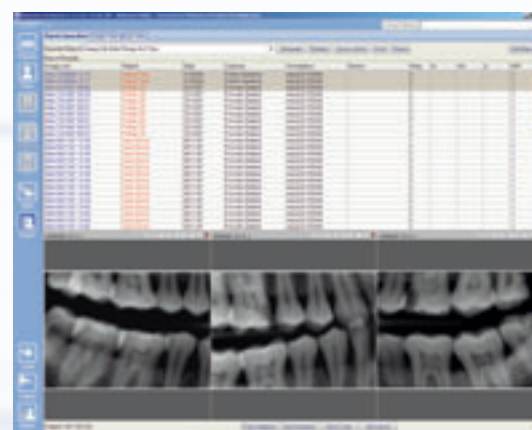
Durable even in demanding environment



Using Planmeca Romexis, it is easy to take a full mouth series (FMS). The imaging procedure is not interrupted between acquisitions, as the software automatically numbers the acquired images and places them into predefined slots in correct order and orientation.



Varied printing possibilities allow creating stunning reports with ease. Add images to a printout with a single click, scale or crop for balanced result, and add any patient or image information or free text onto printout. Printouts can also be saved as files for e.g. sending as email attachments.



As a standard feature, Planmeca Romexis includes a versatile report module, where database queries can be made with a variety of search criteria: e.g. images captured by certain person or with certain sensor, image type, date, or image diagnosis. Images matching the search criteria can be viewed and enhanced without opening the patient file.

The outstanding practicality in everyday use further contributes to high diagnostic quality. Planmeca ProSensor uses the latest imaging technology available continuing Planmeca's tradition of cutting-edge image quality.

Planmeca Romexis is the software of choice for capturing, viewing, and processing intraoral images, offering a wide range of tools for image processing to improve the diagnostic value of dental imaging. With the help of streamlined workflow and easy-to-use tools, Planmeca Romexis can be used with minimal training.

The software displays all patient images in a single interface. Planmeca Romexis is fully compatible with industry standard DICOM and with other 3rd party software. It is pure Java based software that runs in various operating systems and modern web environments.



The TrollByte Plus sensor holder is designed by Trollhätteplast in collaboration with dental professionals to be used for full mouth survey and to guarantee excellent images even in hard to reach areas without compromising the comfort of the patient.

The fully autoclavable one-piece design makes the TrollByte Plus sensor holder easy to use and maintain. All three holders are colour coded for an easy identification of image type.

The positioning of the sensor in the patient's mouth is made as straightforward as possible. The aiming ring is especially helpful when taking anterior and posterior periapicals. One aiming ring is compatible with all three holders. For easy set up, the colour coding on the ring matches the colours of the holders.

Planmeca Romexis software

Planmeca Romexis is a complete dental imaging software, including all dental imaging modalities: intraoral, panoramic, cephalometric, 3D imaging, dental tomography as well as intraoral video and still camera imaging. With a complete set of tools for image viewing, enhancement, measurements, and annotations, Planmeca Romexis also improves the diagnostic value of radiographs. Printing, image import and export, and DICOM functionalities are also included.

Planmeca Romexis platform fully integrates digital imaging with the patient's other clinical data. The system provides direct image capture from Planmeca's X-ray equipment, and interfaces with 3rd party devices via TWAIN. Together with Planmeca's X-ray equipment, Planmeca Romexis provides a unique safety feature especially useful for teaching environment: the X-ray image capture is inhibited until the supervisor has approved the student's image capture request.

Planmeca Romexis computer recommendations

	Planmeca Romexis client work station	Planmeca Romexis server
Processor	1 GHz	2 GHz
RAM	1 GB	2 GB
Hard disk space	40 GB	160 GB
Monitor	1280 x 1024	1280 x 768
Peripherals	CD R/W or DVD R/W drive	CD R/W or DVD R/W drive
Backup medium	None necessary	DAT or equivalent
Operating system	Windows XP, Windows 2003, Windows Vista, Mac OS X, Linux Mac OS X / Linux support subject to contract	Windows XP Pro, Windows 2003 Server, Windows Vista
Other	Java platform (Java Virtual Machine 1.6 or later)	Java platform (Java Virtual Machine 1.6 or later)

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

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

Values presented above are recommended minimum specifications, not meeting them may in some cases cause degraded performance.

DICOM compatibility

- Media Storage – saving images into removable DICOM media
- Print – printing images on film or paper with a DICOM medical printer
- Storage – saving images into DICOM image archive
- Query/ Retrieve – importing digital images from DICOM image archive
- Worklist – importing a patient list from DICOM patient management
- Storage Commitment – confirmation of a successful image storage

Planmeca ProSensor

	Size 0	Size 1	Size 2
Sensor size	33.6 x 23.4 mm (1.33 x 0.92 in.)	39.7 x 25.05 mm (1.56 x 0.99 in.)	44.1 x 30.4 mm (1.76 x 1.2 in.)
Active area	25.5 x 18.9 mm (1.0 x 0.74 in.)	31.5 x 20.7 mm (1.24 x 0.81 in.)	36 x 26.1 mm (1.42 x 1.03 in.)
Number of pixels	850 x 629	1050 x 690	1200 x 870
Physical pixel size	15 µm x 15 µm	15 µm x 15 µm	15 µm x 15 µm
Pixel size	30 µm x 30 µm	30 µm x 30 µm	30 µm x 30 µm
Theoretical resolution	33 lp/mm	33 lp/mm	33 lp/mm
Resolution	17 lp/mm	17 lp/mm	17 lp/mm
Interface	USB or Ethernet		
View delay	<5 sec.	<5 sec.	<5 sec.





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



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