Detailed images without noise or artefacts with Planmeca’s endodontic imaging mode

Specifically designed for endodontic studies, Planmeca’s advanced endodontic imaging mode provides perfect visualisation of even the finest anatomical details. It is available for all X-ray units belonging to the Planmeca ProMax 3D family and is ideal for endodontics, as well as other cases that require imaging of small anatomical details, such as imaging of the ear. The imaging programme produces extremely high-resolution images with a very small voxel size (only 75 µm).

The Planmeca AINO noise removal and Planmeca ARA artefact removal algorithms allow images to be noise-free and crystal-clear, while visualisation of segmented teeth and their roots is made straightforward and easy with the new Tooth Segmentation tool.

Planmeca ARA removes artefacts efficiently

Metal restorations and root fillings in the patient’s mouth present a challenge, as they can cause shadows and streaks in CBCT images. The intelligent Planmeca ARA Artefact Removal Algorithm removes these artefacts efficiently from Planmeca ProMax 3D images.

Planmeca AINO removes noise from CBCT images

A particularly low radiation dose or small voxel size can cause noise in 3D X-ray images. The Planmeca AINO Adaptive Image Noise Optimiser is an intelligent noise filter that reduces noise in CBCT images without losing valuable details. The filter improves image quality in the endodontic imaging mode, where noise is inherent due to the extremely small voxel size. It is also especially useful when using the Planmeca Ultra Low Dose protocol, where noise is induced by the particularly low dose. Planmeca AINO also allows reducing exposure values and consequently the radiation dose in all other imaging modes.

Efficient tooth segmentation

The new version 4.2 of the Planmeca Romexis all-in-one software platform introduces an intuitive and efficient tool for segmenting a tooth and its root from a CBCT image. The guided process enables quick segmentation of a patient’s full dentition. Surface models of segmented teeth can be visualised, measured and utilised in Planmeca Romexis, or exported to other systems as open STL files.

Contact

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MANI: The Best Quality in the World, to the World

_MANI INC, established in 1959, is one of the leading manufacturers of dental and medical instruments in the world.

Headquartered in Tochigi, Japan, we oversee production and sales sites locally and overseas in countries such as Vietnam, Myanmar and Laos. Listed on the first section of the Tokyo Stock Exchange in 2012, we employ more than 2,500 people worldwide and use our own channels of distribution to deliver products to more than 120 countries.

MANI offers a wide range of dental instruments, including burs, sutures, root canal instruments, polishing instruments, posts and dental accessories. MANI is dedicated to providing nothing but the highest quality instruments to our customers. Our decades of experience working with dental professionals allow us to maintain high standards in development and manufacturing. Customer satisfaction is our top priority at MANI, achieved by cultivating long-term relationships with our buyers and sellers. We are also proud to contribute to global health and well-being by offering products that are beneficial to doctors and their patients.

Our motto, ‘The best quality in the world, to the world’ reflects our approach to manufacturing and distribution. MANI employees are driven to meet the high standards demanded by our clients every single day.

At the 17th ESE Biennial Congress in Barcelona (16–19 September 2015), MANI is proud to announce the global launch of their new and novel rotary nickel titanium file system, ‘MANI Silk’ at the booth 68.

MANI Silk features an innovative breakthrough in heat treatment technology. The files are heat treated from the tip through the first 10 mm of the cutting flutes, providing flexibility where it is needed most. In addition, the file has a teardrop cross-section, which channels debris coronally, reducing the ‘screwing in’ effect and improves tactile control, hence the name MANI Silk.

Extensively researched and clinically tested, easy to integrate into clinical practice, MANI Silk is anatomy based. Simple packs (.08/25, .06/25 and .06/30) are configured for ‘simple canals’ (little or no curvature or calcification). Standard packs (.08/25, .06/20 and .06/25) are configured for ‘standard canals’ (moderate curvature and calcification). Complex packs (.08/25, .04/20 and .04/25) are configured for ‘complex canals’ (severe curvature and calcification).

After using the orifice opener (.08/25) and creating the glide path, MANI Silk files are alternated from the smaller tip-sized instrument to the larger until the final shape is prepared. For example: when using the Simple pack, the .06/25 is followed by the .06/30. When using the Standard pack, the .06/20 is followed by the .06/25. When using the Complex pack, the .04/20 is followed by the .04/25. Larger apical diameters can be prepared using MANI Silk .04/30, .04/35, .04/40, .06/30, .06/35, and .06/40 instruments if desired.

You are encouraged to visit the MANI booth at the ESE to learn more about MANI Silk and see the impressive range of MANI products, including burs, stainless hand files, nickel titanium hand files and the MANI GPR (Gutta Percha Removal) instruments, among many other fine MANI endodontic products.

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FKG Dentaire in the 2015 ESE Congress
Market leader in endodontic instruments to take active part

_This year marks the first time_ FKG Dentaire will be a Bronze Sponsor of the event, which takes place 16–19 September at the International Conference Centre of Barcelona. “The ESE Congress is incredibly important for us, as it brings together over 2,000 specialists in endodontics,” says Thierry Rouiller, CEO of FKG Dentaire. “It’s a unique opportunity in Europe to present our different products and demonstrate how they work. It also gives us a chance to share and exchange ideas with a group of passionate individuals coming from different perspectives.”

To mark the occasion, FKG Dentaire is focusing on the big picture. It has invited three distinguished endodontic experts who will present in detail a handpicked selection of FKG instruments, including the company’s flagship product this year, the XP-endo Finisher.

Kicking off proceedings on Wednesday, 16 September, will be Dr Martin Trope from USA.

“We are honoured to have Dr Trope animate two pre-congress sessions organised by FKG on the theme of ‘Biologic and Conservative Endodontics: 3-D disinfection of the root canal system using memory shape technology’,” explains Patricia Borloz, marketing director at FKG Dentaire. “From shaping to obturation, participants at this hands-on lecture will be able to follow a step-by-step demonstration at the microscope.”

“On Thursday, Dr Gilberto Debelian from Norway will lead a lecture on the challenges of cleaning the root canal and present the characteristics and advantages associated with the XP-endo Finisher. This latest FKG innovation is a revolutionary instrument that allows practitioners to treat highly complex root canal systems and clean hard-to-reach areas with minimal impact on the dentine.”

“Finally, on Friday, 18 September, we have the pleasure of welcoming Dr Bertrand Khayat from France,” Ms Borloz adds. “He will showcase from start to finish a short sequence of exclusively rotary instruments developed by FKG to maximise the quality and efficiency of root canal preparation. We are really looking forward to these sessions and to hearing participants’ comments and suggestions.”

Advance online registration for pre-congress sessions, together with the full schedule of congress lectures, is now available on the ESE website: www.e-s-e.eu

For more information, please visit the FKG Dentaire stand in area 49/36 of the exhibition hall or get in touch using the contact details below._

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Introducing the all-new dental microscope from CJ-Optik

Love at first sight is coming soon to an operatory near you!

Exclusive unibody construction offers a purity of form and perfect function. The microscope is created using a minimalist design philosophy, demanding that less is truly more. All essentials, included! The highest quality German optical and machining skills are combined to create a no-compromise system of elegance and simplicity.

Apo and Plan-apochromat optics with the latest index-matching coatings are integrated, offering the highest correction for aberration, colour and light transmission. A precise and innovative construction provides superior ergonomic placement for all functions and controls, along with unparalleled ease-of-movement.

roots