imaging

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).

Planmeca AINO removes noise from CBCT images
A particularly low radiation dose or small voxel size can cause noise in 3-D 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.

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.

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.

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ultrasonic irrigation

New cordless Ultrasonic Activator significantly improves debridement

Science has shown that irrigants are more effective when they are electro-mechanically activated. Acoustic streaming and cavitation of endodontic solutions has been shown to significantly enhance cleansing of difficult anatomy. Studies have shown that low frequency (Sonic) oscillation (160–190 Hz) was not sufficient in creating acoustic streaming or cavitation within the canal space.

EndoUltra is the only cordless, compact, battery operated piezo ultrasonic (40 kHz) activation device. Only EndoUltra is capable of producing acoustic streaming and cavitation in small canal spaces, resulting in significantly improved debridement, disruption of biofilm, improved penetration of irrigants into dentinal tubules, and the removal of vapor lock. Resulting in improved outcomes.

EndoUltra features unique 15/02 Activator Tips, which resonate along the entire length of the tip and do not engage tooth structure. Activator tips feature depth markers at 18, 19, and 20 mm.

For over 20 years Vista Dental Products have been offering hundreds of top quality dental products, endodontic solutions, equipment, and accessories. The EndoUltra ultrasonic activator is another example of product innovation and Vista’s dedication to the industry.

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