

NewTom increases resolution for large field of view images

Inline Medical & Dental has announced that the NewTom VGi Cone Beam Scanner has added a new feature, making it the first CBCT unit to capture super high resolution images along with large volume functionality in a single machine. The new collimation will allow the NewTom VGi to obtain resolutions down to a .075mm or give the operator the ability to acquire a large 15cm x 15cm field of view (FOV) scan when needed. Additionally, the system now has 7 new FOV options with each of the FOV's offering variable voxel sizes. Already known for its superb image quality amongst Oral and Maxillofacial Radiologists and dental specialists, the new variable FOV feature further justifies the commonly heard "professional-grade" label these experts place on the NewTom range.

"This is one of the most significant upgrades we've seen from any cone beam CT manufacturer to date," said Mike Harman, Director of Inline Systems. "This new feature pushes the envelope in the industry by adding an even higher resolution to the NewTom VGi, a feature which up to now was typically seen in only the implant specific or small FOV units.

"It is now the highest resolution CBCT of all the units in the large FOV category. Anyone who is considering a Cone Beam CT, regardless of specialty, should take a look at the NewTom VGi with this amount of flexibility."

Furthermore, NewTom Systems combine a host of other unique features resulting in less radiation, greater accuracy, and superior image quality in comparison with other CBCT systems. NewTom is one manufacturer that adheres to the ALARA principle (As Low As Reasonably Achievable) through the patented Safe Beam Technology™ which automatically sets the radiation level following an evaluation of the patient's anatomical density. A small child receives up to 40% less radiation than the already very low level for a full-sized adult and patients are therefore never exposed to unnecessary radiation. A



NewTom VGi scan exposes the patient to an average of only 50 microsieverts per scan in comparison to a medical CT scan averaging 1500-2000 microsieverts per scan.

A NewTom scan takes an image at every degree of rotation increasing the range of possibilities for image manipulation - 360° rotation = 360 images. The scan takes less than 18 seconds and produces the clearest and sharpest CBCT image obtainable from any CBCT system, with resolution ranging from 0.3 to 0.075mm. Additionally, NewTom CBCT systems offers a small footprint and flexible seating thus accommodating wheel chair patients and small children, and provides a combination of features to ensure optimum patient outcomes.

NewTom Cone Beam Systems and software are compatible with third party treatment planning software and milling systems. This seamless integration of technologies offers greater efficiencies by improving diagnostics, patient education and treatment acceptance, and most importantly improves surgical outcomes. According to Sydney Dentist David Leafe who has been using a Newtom VG systems for over two years, "All the required data is gathered through one simple scan - the patient understands the 3D scan which makes my consulting process much quicker and the images produced by the Newtom enable me to plan my treatment in much more detail. We use the Newtom VG daily and have been very happy with the system"