

Press Release

The form is the key: Morita's new 3D x-ray system is based on a new jaw imaging format

Dietzenbach, Februar 2012 - The venerable dental supply company Morita offers outstanding solutions for 3D imaging, in the guise of its versatile combination 3D imaging units, the Veraviewepocs R100 and F40, comprising a cone-beam computed tomography unit (CBCT) and an x-ray machine. Lowest possible radiation exposure. The unique new field of view offered by the R100 and F40 only focuses on the relevant elements, thus allowing for optimal imaging of the dental arch, combined with optimally low radiation exposure for the patient. These optimized and innovative devices, which offer a raft of expanded functions, are intended as replacements for the previous models.

Sometimes in life, less really is more. Morita's new x-ray machines, the Veraviewepocs 3D R100 and F40, are based on the principle of maximization through reduction – and in more ways than one. One goal of this approach is to generate the smallest possible image, so as to allow for use of a field of view (FOV) that is tailored to each individual indication. The R100's wholly unique technology known as the Reuleaux triangle FOV* supersedes classic cylindrical imaging via a triangular form, thus providing more realistic views of natural dentition – while at the same time avoiding unnecessarily high radiation exposure (relative to ø100 mm FOVs). This new, patient-friendly FOV (for which a patent is pending) makes dental procedures more comfortable for both the dentist and patient, while at the same time providing the dentist with a larger spectrum of functions and on-screen display options. The new combination devices cover the

whole gamut of dental specializations (as did the previous models, the Veraviewepocs 3D and 3De), from implantology to endodontics.

Both of the new-generation models provide relevant functions to the same degree, while measurements and image quality are identical to those of the prior models, the 3D and 3De. Thus the Veraviewepocs 3D R100 and F40 generate 3D images in a quality that is optimal for visualization for root canals, as well as for guided-surgery procedures. Panoramic images can be generated with the same low radiation exposure, using a narrow aperture, and with a pixel size of 100 and 174 μm for the R100 and F40 respectively. A function known as the Panorama Scout allows the user to switch to panorama mode without realizing the burdensome procedure of changing the fragile sensors. An additional advantage of the new machines is their i-Dixel software, which allows for layer variation – and thus positioning errors in a given image can be corrected and the image can be optimized, after the fact. The R100 3D has six different FOVs for a given cone-beam computed tomography image. What's more, the increased diameter (100 mm) offered by the device allows for complete scans of both the upper and lower dental arch (to the wisdom teeth) – an advantage for both oral surgery and implants. For generating smaller-sized images ($\varnothing 40 \times 80$, $\varnothing 40 \times 40$) only, the Veraviewepocs 3D F40 is ideal. It offers the same range of functions as the R100, and also integrates a comfortable LCD touch display. Both models support cephalometric imaging (four different FOVs), thanks to the device's integrated CCD sensor and a 96 μm pixel size. And when it comes to the crucial issue of cost effectiveness for your dental practice, the prognosis couldn't be better: Thanks to the optimization of the sensor manufacturing process and of individual components and functions, Morita guarantees the outstanding quality you've come to expect from their machines, combined with optimal cost efficiency. Once again, the venerable Japanese firm Morita has proven its tremendous capacity for innovation when it comes to x-ray solutions – a capacity that has reached a new high with the new models, the Veraviewepocs 3D R100 and F40.

*The “Reuleaux triangle” feature is available only in the R100 (the $\varnothing 40$ and $\varnothing 80$ formats are cylindrical).

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About Morita:

The Morita Group is one of the most important manufacturers of medical-technical products. The Japanese traditional company with distribution companies in Europe, USA, Brazil, Australia and Africa has an extensive range. As a leader in X-ray diagnosis and endodontics the product portfolio offers high-performance imaging systems to 3-D volume tomography, treatment units, turbines, manual and contra-angle handpieces, instruments as well as endodontic measuring and preparation systems. With a well-developed philosophy of quality and continuous research, the 2,400 employees worldwide focus on the requirements of users and dentists. The spirit of Junichi Morita, who founded the company in 1916, lives on. Morita is now in its fourth generation of family ownership and is headed by Haruo Morita.