

Press release

Digital 3D diagnostics: Modern imaging for the dental practice

Morita adds two new Fields of View to Veraviewepocs 3D R100

The Japanese company Morita is one of the leaders in the field of digital imaging, offering high-resolution diagnostic systems for practitioners in different fields — from orthodontics and periodontics, endodontics and oral implantology to maxillofacial surgery and ear, nose and throat (ENT) applications. Both the 3D Accuitomo 170 cone-beam computerized tomography (CBCT) scanner and the Veraviewepocs 3D R100 2D/3D system provide high-quality and unequivocal diagnostic findings. Just in time for this year's IDS, two new Fields of View (FOV) have been added to the Veraviewepocs 3D R100 for even better adjustment to the size of the maxilla or mandible, and for further reduction of the radiation exposure.

For Morita, patient safety always comes first, ahead even of product quality and function — right from the start of the diagnostic procedures. The modern imaging techniques employed by the traditional Japanese company keep radiation exposure »As Low As Reasonably Achievable« — thus strictly following the well-known ALARA principle. Suitable for panoramic, cephalometric and 3D images, the Veraviewepocs 3D R100 combination system achieves this in part by a unique visual field in the form of a Reuleaux triangle, which is based on the natural shape of the jaws, and records only clinically relevant areas. This way, unnecessary radiation is avoided. Concomitantly, the Image Adjustment Layer feature compensates for positional changes of up to 2 cm on panoramic radiographs, rendering retakes due to anomalies or incorrect positioning superfluous. For the 2015 IDS, Morita has added two new Fields of View (FOV) to the Veraviewepocs 3D R100, with dimensions of Ø R100 × 40 mm and Ø 80 × 40 mm. More individual

height adjustment options make maxillary and mandibular imaging easier. This also ensures more precise patient alignment — at maximum resolution and minimum radiation levels. Including the two newcomers, the Veraviewepocs 3D R100 now features a total of eight different FOV and offers a variety of applications, such as orthodontic treatment planning, accurate localization of root canals during endodontic procedures, or the preparation for and realization of implant-based treatments.

Morita's 3D Accuitomo 170 CBCT scanner also covers a wide range of indications, from oral and maxillofacial surgery and ENT to general dental diagnostics in endodontics or oral implantology. The system was specially developed for a high-resolution representation of all structures in 3D. Using a total of nine different cylindrical FOV sizes with diameters between 40 and 170 mm, cranial shapes and bony structures can be visualized at resolutions (voxel sizes) of between 80 and 250 μm . Images appear quickly and are detailed and crisp, not least thanks to the four different imaging modes such as Hi-Speed, which delivers a 180° scan in just 5.4 seconds, thereby reducing motion artefacts and radiation exposures.

This top-of-the-line hardware is supported by Morita's smart i-Dixel imaging software for continuous documentation and easy image manipulation. Versatile options for manipulating images are complemented by extensive patient-education support. The software can visualize and document the diagnosis and the treatment plan — indeed the entire course of therapy — on the screen. Digitization benefits the patient but also the dental team. This becomes obvious when looking at two examples from orthodontics and oral implantology: thanks to the open platform, the 3D system solutions by Morita can be combined with the intraoral and model scanners of different vendors to produce high-precision digital impressions. Implant planning and positioning also benefits from matching data from intraoral or model scanners with the 3D images of Morita's radiological systems — the perfect basis for accurate drilling stents.

Additional product information about 3D Accuitomo 170, Veraviewepocs 3D R100 and the i-Dixel software is available at the Morita booth at IDS (Hall 10.2, Aisles R and S, Booths R040, S049, and S051) or online at www.morita.com/europe.

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Morita IDS Stand:

Hall: 10.2
Aisle: R, S
Stand: R040, S049, S051

About Morita:

The Morita Group is one of the leading manufacturers of technical medical products. The traditional Japanese company has sales companies in Europe, USA, Brazil, Australia and Africa and offers a wide range of products. As a leader in x-ray diagnostics and endodontics, the company's product portfolio offers high-performance imaging systems up to cone beam CT, handling units, turbines, straight hand and contra-angle pieces, instruments and endodontic measurement and preparation systems. With outstanding quality standards and continuing research, Morita's worldwide staff of 2,400 employees is oriented towards the needs of users and doctors. In this way, the spirit lives of Junichi Morita who founded the company in 1916. Morita has now been in family hands for three generations and is currently under the management of Haruo Morita.