

# Manufacturer News

J. Morita

## Veraviewepocs 3D: From panoramic to 3D images in just one click

With the new Veraviewepocs 3D X-ray unit, J. Morita Europe promises dentists several benefits at once. Where they previously had to transfer their patients to radiologists to take 3-D X-rays, according to the manufacturer's instructions they can now provide this service in their own practice. This improves their diagnostic options and saves the patient time and unnecessary travel. With Veraviewepocs 3-D both very high resolution 3-D images and real panoramic and cephalometric exposures can be created without having to change the sensor in-between. As a functional unit, the device delivers precise results with the lowest doses of radiation with very few steps. The user creates an OPG exposure which is available immediately on the screen. He can instantly assess whether an additional 3-D exposure is indi-



cated and selects the region to be examined by clicking on it with the mouse. The 3-D exposure is generated without having to reposition the patient and change the settings. You can select 3-D exposures in 40 x 40 mm or 80 x 80 mm formats. In both sizes the details have an equally high resolution and are presented with high image dynamics and without image distortion. Using the accompanying i-Dixel software, the user can, after a short scanning time, study the image data in axial, coronal and sagittal views simultaneously. Taking the exposure is just as user-friendly as with 3D Accutomo, for example. If you also install

the i-Dixel software on other computers in the practice, the three-dimensional exposures can be displayed and edited on each of these computers. If you do not want to use the i-Dixel software, the images can also be viewed with the free software One Data Viewer. Due to the integrated DICOM standard, the exposures can also be exchanged between different information systems. According to J. Morita Europe, Veraviewepocs 3-D with its three-dimensional exposures enables structures to be displayed which cannot be recognised using conventional X-ray procedures. Dentists can thus diagnose and treat patients with more confidence and at the same time combine their diagnostics, treatment planning and implementation in one work step.

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## BONITmatrix®- Innovation for successful bone regeneration

BONITmatrix® is a synthetic bone graft substitute for the reconstruction of bone defects. It consists of a mixture of the two calcium phosphates Hydroxylapatit (HA) and  $\beta$ -tricalciumphosphate ( $\beta$ -TCP) in the clinically proven ratio of 60:40. In contrast to conventional HA and  $\beta$ -TCP based ceramics and bio-glasses BONITmatrix® is manufactured in a sol-gel-process without sintering. In this process nanocrystalline calcium phosphate particles are embedded in a biological active Silicon dioxide-matrix. Utilising this special low temperature process leads to a highly interconnected porosity inside the single granule of approximately 60% and an implanted porosity in vivo of nearly 80%. The pore sizes are in the nano- and micrometer range ensuring the product has a very large internal surface area of approx.



90 m<sup>2</sup>/g. The interconnecting pore system creates a high capillarity allowing for the deep diffusion of biological fluids and the adsorptive capacity enables the binding of important growth factors present in blood etc. and supports osteogenesis. The material is osteoconductive and acts as a scaffold during the osteogenesis. During the evaluation in a comparative clinical trial with a leading  $\beta$ -TCP-based product, BONITmatrix® showed a better wound healing as well as a

better bone formation in the defect area. After mixing with autologous blood or bone marrow the granules are very form-stable. Because of the simple and safe surgical applicability and the firm implantation site retention, BONITmatrix® is recommended for use in larger and difficult accessible dental defects (>1cm<sup>3</sup>). The material is supplied in single vials, sterilised by gamma irradiation. BONITmatrix® is available in two granules sizes and in four package sizes. To obtain more information on BONITmatrix® please contact:

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