

Veraviewepocs 3De – The Dental Panoramic X-Ray Unit for All Your 3D Imaging Needs

J.MORITA MFG.CORP.



Thinking ahead. Focused on life.



Veraviewepocs 3De The X-Ray Unit for All Your Imaging Needs

In the Morita tradition of offering leadingedge dental technology with the most thoughtfully-designed features possible, the Veraviewepocs 3De is a state-of-the-art panoramic X-ray unit for 3D imaging. High in resolution and low in X-ray exposure, it offers easy positioning and image-manipulation, versatile image processing, and brilliant, distortion-free 3D images – with the accuracy and fidelity you can confidently expect from a Morita product.

- 3D, Panoramic, and cephalometric capabilities
- Integrated sensor for both panoramic and 3D images
- Easy positioning for 3D images simply click the region of interest on the panoramic view
- High-resolution, contrast-rich 3D images of both hard and soft tissue with minimal artifacts – and no distortion
- Fully digital system
- Easy image processing for 3D images with intelligent volume rendering and real-time reslice
- View 3D images on any computer or export them to third-party software for more specialized processing
- The effective dose for 3D images is only about 1.8 times* panoramic X-ray with film exposure and 1/5* the CTDIw value of a conventional CT.

* Based on an actual measurement taken by Morita

Integrated Sensor for 3D Images and Panoramic Radiographs – Positioning Made Easy by Panoramic Graphic Display



Integrated Sensor for 3D Images and Panoramic Radiographs Panoramic Graphic Display Makes Positioning Easy

Before taking a 3D image exposure, the instrument releases a high resolution panoramic exposure to target the region of interest on the PC monitor. The C-arm then automatically moves into the optimum patient position to get a 3D image centered on the region of interest.





AF (Auto Positioning)

A light-beam sensor automatically positions the unit without requiring the patient to move. The light-beam sensor measures the distance to the patient's teeth, then the arm automatically moves into the optimal position. This process produces images with a high degree of reproducibility.





State-of-the-Art Parallel and Cross-Sectional Exposure Angles

At the start of the imagegeneration process, a panoramic exposure follows the dental arch in the optimum parallel pattern while accommodating a variety of anatomical conditions. The resulting images display anatomical conditions based on the optimum parallel and cross-sectional slicing. You can also change parallel and cross-sectional angles on the computer in the reslicing process.



Our State-of-the-Art Positioning System Produces Optimum Image Results



From the high resolution panoramic, positioning is easy to obtain for a 3D image. Simply click the appropriate position on the panoramic image and the unit will automatically reposition itself to take the 3D image. This system is easy to use and provides accurate results; the 3D image is always along the dentition.

The Ø 40 X H 80 mm images are useful in determining the relationship of opposing teeth for dental implant planning, etc.

Apical Lesion



The upper right second premolar and the upper right first molar of the patient have affected periodontal infection and a radicular cyst respectively. OPG and intra-oral X-ray provide no clear presentation of the cyst.



Diagnosis with 3D images: Periodontal infection around the upper right second premolar and the radicular cyst associated with the upper right first molar are observed.

High Quality Images with Reduced Radiation

Lesion of the Maxilla





Follow-up after root canal treatment with calcium hydroxide. The cyst has continued to develop even after the treatment with calcium hydroxide. The patient feels swelling in the oral vestibule.

Gutter-Shaped Root



The root of the lower left second molar is gutter-shaped and curved. The course of the root canal, however, is accurately perceivable.

The root canal length can also be measured accurately.

Ø 40 x H 40 mm 80 kV, 5 mA, 9.4 sec.





Veraviewepocs 3D images will serve your clinical needs for nearly any clinical case.

Follow-Up Observation of Implants



Preoperative examination of implants placed in the left posterior maxilla corresponding to the first and second molar region. The thickened membrane of the maxillary sinus is noted.



TMJ Osteoarthrosis



Examination of TMJ with the mouth open and closed. The interference of the condyle on the articular eminence when the mouth is open, causing the flattening of the condyle, is noted.



Veraviewepocs 3De – 3D Images of Region of Interest, Panoramic, Plus Cephalometric Views







Technical Specification Veraviewepocs 3De				
	Panoramic/3D Image	Panoramic/Cephalometric/3D Image		
Trade name	Veraviewepocs 3De			
Model	X550			
Input voltage	EX-1: AC 120V 60 Hz, EX-2: 220/230/240 V 50/60 Hz			
Power consumption	2.0 kVA			
X-ray generator				
Tube voltage	60 – 80 kV			
Tube current	1–10 mA			
Effective focal spot	0.5 mm			
Panoramic image				
Exposure time	Fine high-speed mode approx. 7.4 seconds			
Mag. ratio	1.3, 1.5, 1.6			
Positioning	Electric motor and auto focusing optical distance sensor			
Cephalometric image				
Imaging area	—	LA 225 × 254 mm PA 225 × 203 mm		
Magnification ratio	—	1.1		
3D image				
Exposure time	Approx. 9.4 seconds			
Size of imaging area	Diameter: 40 × Height 40 mm; Diameter: 40 × Height 80 mm			
Emission switch	Deadman type			
Dimensions				
Main unit	W 1,020 × D 1,330 × H 2,355 mm (W 40-1/8" × D 52-3/8" × H 92-3/4")	W 2,000 × D 1,330 × H 2,355 mm (W 78-3/4" × D 52-3/8" × H 92-3/4")		
Control box	EX-1: W 96 × D 40 × H 115 mm — (W 3-3/4" × D 1-1/2" × H 4-1/2"), EX-2: W 70 × D 40 × H 115 mm — (W 2-3/4" × D 1-1/2" × H 4-1/2"),			
Installation area	1.35 m ² 2.60 m ²			
Weight	Approx. 190 kg (418 lb.)	Approx. 258 kg (568 lb.)		

Suggested Operating Space Requirements Veraviewepocs 3De Panoramic V////////



Veraviewepocs 3De Panoramic/Cephalometric



* The Veraviewepocs should be anchored to a concrete

wall and floor.

Imaging Program					
Panoramic		Magnification ratio			
Standard Panoramic	Standard, orthoradial, and shadow reduction	1.3 constant	1.6 constant		
Pedodontic Panoramic	Standard, orthoradial, and shadow reduction	1.3 constant	1.6 constant		
Maxillary Sinus Panoramic	posterior		1.5 constant		
TMJ 4 views		1.3 constant			

* Refer to the Veraviewepocs 2D brochure for more details on panoramic/cephalometric images.

* Clinical images are provided by Kitasenju Radist Dental Clinic, i-View Imaging Center, Japan, and the Department of Dentomaxillofacial Radiology at University of Leipzig, Germany.

* X-ray protection should be provided for the patient when X-rays are emitted.

* X-ray cassettes should be treated very carefully.

* Design and specifications are subject to change without notification.

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