



PaxScan 1616DXT imagers provide industry leading CBCT and Panoramic image quality for mid-size dental applications. Varex Imaging’s amorphous silicon based detectors are the gold standard for CBCT in medical, dental and industrial applications.

Amorphous silicon brings key advantages unmatched by other technologies, including:

- radiation hardness > 1MRad
- widest input energy range
- immunity from single photon events in the substrate
- excellent low dose performance
- proven 3-D soft-tissue capability

Varex Imaging’s extensive dental product line allows the OEM to easily integrate multiple panel sizes. The Virtual CP software interface is common across all the panels and the entire product line is offered with Gigabit Ethernet.

Technical Specifications	
Receptor Type	Amorphous Silicon
Conversion Screen	Direct Deposit CsI, DRZ Plus
Pixel Area	Total 16.3 x 16.3 cm (6.4 x 6.4 in.)
Pixel Matrix	Total 1280 x 1280 (1 x 1) 640 x 640 (2 x 2)
Pixel Pitch	127 μm ²
Limiting Resolution	3.94 lp/mm
MTF, X-Ray	>48% @ 1 lp/mm (1 x 1), CsI screen
DQE, X-ray	> 60% @ 1 lp/mm (1 x 1), CsI screen
Energy Range	40 - 160 kVp (*capable of 225 kV with additional tungsten shielding)
Fill Factor	57%
Image Capture	Pleora Gigabit
Scan Method	Progressive
A/D Conversion	16-bit
Frame Rate	24 fps (1 x 1) 48 fps (2 x 2) 71 fps (3 x 3) 94 fps (4 x 4)
Data Output	Gigabit Ethernet
Exposure Control	Opto Coupled, External Sync, Expose OK
Mechanical	
Weight	3.71 lbs. (1.68 kg) (*225kV version 5.29 lbs. (2.4kg))
Housing Material	Aluminum
Sensor Protection Material	Carbon fiber plate (2.5 mm thick) and aluminum

Software	
The software release includes ViVA™, a basic application for image acquisition and viewing on an end-user workstation running Microsoft® Windows™. The developer’s software package includes a “Virtual Command Processor” software interface that performs detector calibration, detector set-up, image acquisition, and image corrections. ViVA™ includes file type translators for .viv, .raw, .jpg, and .bmp file formats.	
Power	
Power Dissipation	10.5 Watts @ 15 VDC
Power Supply/Mains	100 - 240 VAC, 47 - 63 Hz
Environmental	
Temperature Range - Operating	10°C to 35°C (max.) Two internal sensors T1 & T2 should be less than 52°C
Storage (Ambient)	-20°C to +70°C
Humidity (non-condensing) - Operating & Storage	10% to 90%
Atmospheric Pressure - Operating & Storage	70 kPa to 106 kPa
Regulatory	
U.S.	ANSI/AAMI ES60601-1:2012
Canada	CAN/CSA C22.2 No. 60601-1:14
EU	IEC/EN 60601-1:2012
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Dimensions are for reference only

